

ELECTRICAL LEGEND

	120V DUPLEX RECEPTACLE: 18" AFF STANDARD, UNO
	120V DUPLEX RECEPTACLE: GFI 18" AFF STANDARD, UNO
	120V DUPLEX RECEPTACLE: WEATHERPROOF GFI W/ WEATHERPROOF IN-USE COVER
	120V QUADPLEX RECEPTACLE: 18" AFF STANDARD, UNO
	120V QUADPLEX RECEPTACLE: GFI 18" AFF STANDARD, UNO
	JUNCTION BOX, PURPOSE AS NOTED
	JUNCTION BOX IN WALL, PURPOSE AS NOTED: 18" AFF STANDARD UNO
	DISCONNECT SWITCH NON-FUSED
	DISCONNECT SWITCH FUSED
	DATA/TELCO OUTLET: 18" AFF STANDARD UNO
	DATA OUTLET: 18" AFF STANDARD UNO
	TELCO OUTLET: 18" AFF STANDARD UNO W: TELEPHONE OUTLET, 48" AFF UNO
	SINGLE POLE WALL SWITCH: 44" AFF STANDARD UNO
	MOTOR RATED SWITCH: 44" AFF STANDARD UNO
	VACANCY SENSOR DUAL TECHNOLOGY WALL SWITCH: 44" AFF STANDARD UNO
	DIGITAL TIMER SWITCH: 44" AFF STANDARD UNO
	CARD READER - 48" AFF
	CARD READER WITH KEYPAD - 48" AFF
	ELECTRONIC LOCKING MECHANISM
	DOOR CONTACT
	REQUEST FOR EXIT SENSOR
	DOOR HOLD OPEN
	FIXED DOME CAMERA
	PAN/TLT/ZOOM DOME CAMERA
	PUSH BUTTON - 48" AFF
	PUSH PLATE - 48" AFF
	AUTOMATIC DOOR OPERATOR
	HEAT DETECTOR

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
	FIRE ALARM SPEAKER/STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF #col - CANDELA SETTING W - SPEAKER TAP
	FIRE ALARM SPEAKER-WALL MOUNTED W - SPEAKER TAP
	FIRE ALARM STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF. #col - CANDELA SETTING
	FIRE ALARM STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10'-0" AFF. #col - CANDELA SETTING
	FIRE ALARM SPEAKER/STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10'-0" AFF. #col - CANDELA SETTING W - SPEAKER TAP
	MANUAL FIRE ALARM PULL STATION TO BE LOCATED WITHIN 5'-0" OF THE EXIT DOORWAY OPENING. MIN. 42" AFF. MAX. 48" AFF.
	FIRE ALARM CONTROL PANEL
	FIRE ALARM EXTENDER PANEL
	FIRE ALARM ANNUNCIATOR
	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL
	SMOKE DETECTOR
	HEAT DETECTOR

ABBREVIATIONS

1PH 1P 2C 3C 3PH 4C 4W A/C UNIT A/E AAP AC	SINGLE-PHASE SINGLE POLE TWO-CONDUCTOR THREE-CONDUCTOR THREE-PHASE FOUR-CONDUCTOR FOUR-WIRE AIR CONDITIONING UNIT ARCHITECT/ENGINEER ALARM ANNUNCIATOR PANEL ALTERNATING CURRENT OR ARMORED CABLE	CONT CONTR COORD CPT CRI CT CTV CU CUBIC FEET CUR	CONTINUE CONTRACTOR COORDINATE CONTROL POWER TRANSFORMER COLOR RENDERING INDEX CURRENT TRANSFORMER CABLE TELEVISION COPPER CUBIC FEET CURRENT	HP HT HZ IESNA IMC INCAND IR IWH	HORSEPOWER HEIGHT HERTZ ILLUMINATION ENGINEERING SOCIETY PULL BOX OR PUSHBUTTON INTERMEDIATE METAL CONDUIT INCANDESCENT INCH INSTANTANEOUS WATER HEATER	P PA PACS PB PBPU PCB PCB PED PE PH PNL POD Poe PR PT PTRV PVC PWR	POLE PUBLIC ADDRESS PHYSICAL ACCESS CONTROL SYSTEM PANEL BOARD, PULL BOX, OR PUSHBUTTON PREFABRICATED BEDSIDE PATIENT UNIT PHOTOELECTRIC CELL POLYCHLORINATED BIPHENYL PEDESTAL POWER FACTOR PHASE PANEL POWER OPERATED DAMPER POWER OVER ETHERNET PAIR POTENTIAL TRANSFORMER POWER TYPE FAN VENTILATION POLYVINYL CHLORIDE (PLASTIC) POWER REFLECTED CEILING PLAN RECESSED RECEPTACLE RIGID GALVANIZED STEEL ROOM ROOT MEAN SQUARE REQUIRED
ACC ADOL ADJ ADO AF AFC	ACCESSIBLE ADDITIONAL ADJACENT, ADJOINING AUTOMATIC DOOR OPENER AMPERE FRAME OR AMP FUSE ABOVE FINISHED COUNTER, OR AVAILABLE FAULT CURRENT ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE HOUR AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY ALTERNATE AMBIENT AMP ARCHITECT AMPS SHORT CIRCUIT AMPERE TRIP AUTOMATIC TRANSFER SWITCH AUTO AV	DB DC DCP DEG C DEG F DEMO DIAG DISC DISTR DISTR PL DMR SW DN DPDT DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW DOOR SWITCH DISCONNECT SWITCH DRAWING EC EQ EL ELEV EMCP	DECIBEL OR DIRECT BURIAL DIRECT CURRENT DIMMER CONTROL PANEL DEGREES CELSIUS DEGREES FAHRENHEIT DEMOMONSTRATION DIAGRAM DISCONNECT DISTRIBUTION DISTRIBUTION PANEL DIMMER SWITCH DOWN DPDT DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW DOOR SWITCH DISCONNECT SWITCH DRAWING EC EQ EL ELEV EMCP	LED LF LM LP LPS LRA LTC LT LTG LUMEN LUMIN LV	LIGHT EMITTING DIODE LINEAR FEET (FOOT) LUMEN LIGHT POLE LOW PRESSURE SODIUM LOCKED ROTAR AMPS LOCAL TEMPERATURE CONTROL PANEL LIGHT LIGHTING LIGHTNING LOW VOLTAGE	REC REC RGS RM RMS REQD SCC SE SD SF SHT SI SPEC SPST STP SUE SW SWD SWGB SWGR	SHORT CIRCUIT CAPACITY SERVICE ENTRANCE SMOKE DETECTOR SQUARE FOOT (FEET) SHEET INTERNATIONAL SYSTEM OF UNITS SPECIFICATION SINGLE POLE, SINGLE THROW SHIELDED TWISTED PAIR SUBSURFACE UTILITY ENGINEERING SWITCH SWITCHBOARD SWAGEAR
BAT BC BD BFF BIL BLDG BRKR BYP	BATTERY BARE COPPER BOARD BELOW FINISH FLOOR BASIC INSULATION LEVEL BUILDING BREAKER BYPASS	EMER EMI ENCL ENCLOSURE EMERGENCY POWER OFF EASEMENT EWC EWM EXIST	EMERGENCY ELECTROMAGNETIC INTERFERENCE ELECTRONIC CONTROL CENTER ENCLOSURE EMERGENCY POWER OFF EASEMENT ELECTRIC WATER COOLER ELECTRIC WATER HEATER EXISTING	MAX MC MCA MCB MCC MDP MECH MOTOR MH MIN MISC MLO MOUNT MT MTD MTG MTS MW MVA MEGAWATT MICROWAVE	MAXIMUM METAL-CLAD MINIMUM CIRCUIT AMPS MINIMUM CIRCUIT BREAKER MOTOR/CONTROL CENTER MAIN DISTRIBUTION PANEL MECHANICAL MOTOR GENERATOR MANHOLE MINIMUM MISCELLANEOUS MAIN LUGS ONLY MOUNTED MOUNTING MANUAL TRANSFER SWITCH MEDIUM VOLTAGE MEGAVOLT-AMPERE MEGAWATT MICROWAVE	TC TCP TEL TGB TMBG TPS TTB TV TYP	TIMECLOCK TEMPERATURE CONTROL PANEL TELEPHONE TELECOMMUNICATIONS GROUND BAR TELECOMMUNICATIONS MAIN GROUND BAR TWISTED PAIR TWISTED PAIR SHIELDED TELEPHONE TERMINAL BOARD TELEVISION TYPICAL
C CAB CALC CAP CAT CATV CCR CD CD CF CFE	CONDUIT CABINET CALCULATION, CALCULATED CAPACITY CATALOG COMMUNITY ANTENNA TELEVISION CONTROL, CONTRACTOR CLOSED CIRCUIT TELEVISION CANDELA CONSTRUCTION DOCUMENTS CONTRACTOR FURNISHED CONTRACTOR FURNISHED EQUIPMENT CHILLED WATER PUMP CIRCUIT CIRCUIT BREAKER CURRENT LIMITING FUSE CLG CMU COAX COMM COMPMT CONC	FA FAAP FABL FABX FACP FC FI FILT FLUOR FLUOR FIX FT FU SW FVNR FVR G OR GND GEN GFI GTB HDA	FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM BELL FIRE ALARM BOX FIRE ALARM CONTROL PANEL FOOTCANDLE FILM ILLUMINATOR FIXTURE FLOOD LIGHT FLUORESCENT FLUORESCENT FIXTURE FEET OR FOOT FUSED SWITCH FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING GROUND GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GROUND TERMINAL BOX HIGH HDA	NA NEG NEMA NEUT OR N NFPFA NIC NL NO NO SCALE NTS OC OD OL	NOT APPLICABLE NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NATIONAL FIRE PROTECTION ASSOCIATION NIGHT LIGHT NIGHT LIGHT NORMALLY OPEN NO SCALE NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERLOAD	UGND UNO UNINTERRUPTIBLE POWER SUPPLY UTILITY UTP V VA VAR VFD VOLT W WH WP XFER XFMR	UNDERGROUND UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY UTILITY UNSHIELDED TWISTED PAIR VOLT VOLT AMPERE VOLT AMPERE REACTIVE VARIABLE FREQUENCY DRIVE VOLTAGE WATT WATER HEATER WEATHERPROOF TRANSFER TRANSFORMER

LIGHTNING PROTECTION SYSTEM

PROVIDE A U.L. MASTER LABEL LIGHTNING PROTECTION SYSTEM WHICH COMPLIES WITH NEC, NFPA 780, AND UL 96A. SYSTEM TO CONSIST OF AIR TERMINALS (LIGHTNING RODS) SPACED AT 20 FEET ON CENTER ALONG THE PERIMETER, WITHIN 2 FEET OF EACH CORNER AND AT 50 FOOT SPACINGS IN MID-ROOF CONNECTED TO HEAVY CABLES EXTENDED TO GROUNDING RODS MINIMUM 10 FEET IN DEPTH. INSTALL TRANSIENT SURGE SUPPRESSORS AT ELECTRICAL AND TELEPHONE SERVICE ENTRIES. BOND LIGHTNING PROTECTION SYSTEM TO BUILDING GROUNDING ELECTRODE SYSTEM.

GENERAL NOTES

- ALL ELECTRICAL DEVICES, FIXTURES, EQUIPMENT AND FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICANS WITH DISABILITIES ACT, THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND VA STANDARDS.
- PROVIDE ADDITIONAL SUPPORT FOR DEVICES, FIXTURES, EQUIPMENT AND FEEDERS WHERE THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
- FIRESTOP, DRAFTSTOP, SMOKESTOP AND/OR PROTECT THE ANNULAR SPACE AROUND ALL PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILING, AND ROOFS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, UL LISTING REQUIREMENT AND THE APPLICABLE BUILDING CODES.
- VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES, TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
- PROTECT EXISTING UNDERGROUND AND BUILDING INTERIOR UTILITIES DURING CONSTRUCTION.
- BRANCH CIRCUIT CONDUCTORS SHALL BE 12 AWG COPPER MINIMUM.
- COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
- ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
- MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES, TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED. ALL PRODUCTS MUST COMPLY WITH "BUY AMERICAN ACT".
- ALL FEEDERS AND CIRCUITRY SHALL BE TORQUED PER THE PANEL, BREAKER, AND/OR PARTICULAR EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- CIRCUITRY TO SWITCHES, RECEPTACLES, AND ALL OTHER DEVICES SHALL BE TERMINATED ON THE DEVICES' SCREW TERMINALS.
- MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, OUTLET, FIXTURE, OR EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL WIRE TERMINATIONS SHALL BE RATED FOR 75 DEGREES C.
- ALL CONDUCTORS SHALL HAVE THIN/THIN INSULATION, UNLESS OTHERWISE NOTED.
- ALL CONDUIT SHALL BE RGS OR EMT UNLESS OTHERWISE NOTED. FMC CONDUIT MAY BE USED ON VIBRATING EQUIPMENT. PVC MAY BE USED FOR UNDERGROUND OR CONCRETE-ENCASED.
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
- NO CONDUIT SHALL BE ROUTED BELOW THE LEVEL OF THE DOUBLE-TEE CONSTRUCTION. ALL CONDUITS ROUTED THROUGH DOUBLE-TEES SHALL BE THROUGH THE KNOCKOUTS PROVIDED FOR CONDUIT ROUTING. COORDINATE KNOCKOUT LOCATIONS WITH THE STRUCTURAL PLANS.
- IN CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.
- CONTRACTOR SHALL PROVIDE SUFFICIENT DATA IN SUBMITTALS TO CALCULATE ARC FLASH LABEL DATA. ENGINEER SHALL CALCULATE ARC FLASH LABEL DATA AND CONTRACTOR SHALL USE THE DATA TO CREATE AND INSTALL LABELS FOR ALL ELECTRICAL EQUIPMENT.
- TELECOM CABLING SHALL BE WHITE FOR DATA, BLUE FOR VOICE.

LIGHT FIXTURE SCHEDULE

SYMBOL	LABEL	TYPE OF LAMP	DRIVER	WATTS/ FIXTURE	VOLTAGE	DESCRIPTION	BASIS OF DESIGN FIXTURE (SEE NOTE 9)
	A1	LED 3910 LUMENS 4000K 80 CRI	ONE 0-10V MULTI-LEVEL DRIVER 525mA (HIGH) 175mA (LOW)	33	0VOLT	16" SQUARE PENDANT MOUNT LED PARKING STRUCTURE LUMINAIRE, TYPE V SHORT DISTRIBUTION, WITH INTEGRAL PIR OCCUPANCY SENSOR, PHOTOCELL AND FIELD ADJUSTABLE PROGRAMMABLE MULTI-LEVEL OPTION DRIVER (525mA HIGH LEVEL AND 175mA LOW LEVEL) WITH HAND-HELD REMOTE. MOUNT SUCH THAT BOTTOM OF FIXTURE IS 2" ABOVE BOTTOM OF DOUBLE TEE. CENTER BETWEEN RIBS UNLESS TO AVOID SEAMS.	CREE MODEL # IG-PD-S5-40K-UL-WH-PML (COORDINATE PML OPTIONS IN FIELD) OR APPROVED EQUAL
	A2	LED LUMENS 4000K 80 CRI	ONE 0-10V MULTI-LEVEL DRIVER 525mA (HIGH) 175mA (LOW)	66	0VOLT	16" SQUARE PENDANT MOUNT LED PARKING STRUCTURE LUMINAIRE, TYPE V SHORT DISTRIBUTION, WITH INTEGRAL PIR OCCUPANCY SENSOR, PHOTOCELL AND FIELD ADJUSTABLE PROGRAMMABLE MULTI-LEVEL OPTION DRIVER (525mA HIGH LEVEL AND 175mA LOW LEVEL) WITH HAND-HELD REMOTE. MOUNT SUCH THAT BOTTOM OF FIXTURE IS 2" ABOVE BOTTOM OF DOUBLE TEE. CENTER BETWEEN RIBS UNLESS TO AVOID SEAMS.	CREE MODEL # IG-PD-S5-40K-UL-WH-PML (COORDINATE PML OPTIONS IN FIELD) OR APPROVED EQUAL
	B	LED 4000 LUMENS 4000K 80 CRI	0-10V DIMMING DRIVER	40	0VOLT	4" LINEAR, LENSED, WALL OR CEILING SURFACE MOUNT LED, WITH OCCUPANCY SENSOR AND PHOTOCELL. DIMS TO 10% WHEN UNOCCUPIED.	LITHONIA MODEL # WL4-40L-EZ1-LP840-NES7ADCC-DIM10 OR APPROVED EQUAL
	C	LED LUMENS 4000K 80 CRI	ELEC. DRIVER	64	0VOLT	4" ROUGH-SURFACE VANDAL-RESISTANT LINEAR LED WITH CLEAR POLYCARBONATE LENS. MEDIUM DISTRIBUTION. MOUNTED AT 8'-0" AFF UNLESS NOTED OTHERWISE.	LITHONIA MODEL # VAP-6000LM-POL-MD-MVOLT-40C-80CRI OR APPROVED EQUAL
	D	120 LED 4000K 70 CRI	ELEC. DRIVER	202	0VOLT	RECTANGULAR, LED, AREA LUMINAIRE WITH BACKLIGHT CONTROL, AND 9" ARM MOUNTED TO WALL. SUITABLE FOR WET LOCATIONS. TYPE IV MEDIUM DISTRIBUTION. INTEGRAL PHOTOCELL TO SWITCH FIXTURES BETWEEN FULL POWER AT NIGHT AND OFF DURING DAY.	CREE MODEL # ARE-EDG-4MB-DA-12-E-UL~S25-P
	EB	LED	---	1.8	120/277	SURFACE MOUNT EMERGENCY DOUBLE HEAD. EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP. SUITABLE FOR DAMP LOCATIONS.	LITHONIA MODEL # EULEDIM12 OR APPROVED EQUAL
	EXA	LED	---	1	120/277	SINGLE-FACE LED EMERGENCY EXIT SIGN WITH DIRECTIONAL INDICATOR. GRAY BODY, RED FACE.	LITHONIA MODEL # WLTE-SY-1-R OR APPROVED EQUAL
	EXB	LED	---	1	120/277	DOUBLE-FACE LED EMERGENCY EXIT SIGN WITH DIRECTIONAL INDICATOR. GRAY BODY, RED FACE.	LITHONIA MODEL # WLTE-SY-2-R OR APPROVED EQUAL
	G1	LED 4000 LUMENS 4000K 80 CRI	ELEC. DRIVER	42	0VOLT	4" x 7" x 4.5" ENCLOSED AND GASKETED FIBERGLASS EXTREME ENVIRONMENT LED WITH RIBBED FROSTED ACRYLIC SHIELDING. WET LOCATION LISTED.	COLUMBIA MODEL # LXEM4-40LM-RFA-EU OR APPROVED EQUAL
	G2	LED 4000 LUMENS 4000K 80 CRI	0-10V DIMMING DRIVER	42	0VOLT	4" x 7" x 4.5" ENCLOSED AND GASKETED FIBERGLASS EXTREME ENVIRONMENT LED WITH RIBBED FROSTED ACRYLIC SHIELDING. WET LOCATION LISTED. WITH WET LOCATION RATED. 380 DEGREE OCCUPANCY AND DAYLIGHT SENSOR KIT, DIMS TO 10% WHEN UNOCCUPIED.	COLUMBIA MODEL # LXEM4-40LM-RFA-EU-OS138WLK OR APPROVED EQUAL
	PP2	120 LED 4000K 70 CRI	2 ELEC. DRIVERS	404	0VOLT	TWO-HEAD, RECTANGULAR, LED, POLE-MOUNTED EXTERIOR AREA LUMINAIRE WITH BACKLIGHT CONTROL ON A 25' POLE. SUITABLE FOR WET LOCATIONS. TYPE IV MEDIUM DISTRIBUTION. EACH HEAD SHALL HAVE INTEGRAL PHOTOCELL TO SWITCH FIXTURES BETWEEN FULL POWER AT NIGHT AND OFF DURING DAY. POLE BASE, ANCHORS, AND CAST-IN-BASE CONDUIT PROVIDED BY PRECAST MANUFACTURER.	CREE MODEL # ARE-EDG-4M-DA-12-E-UL~S25-P OR APPROVED EQUAL
	PP3	120 LED 4000K 70 CRI	3 ELEC. DRIVERS	606	0VOLT	THREE-HEAD, RECTANGULAR, LED, POLE-MOUNTED EXTERIOR AREA LUMINAIRE WITH BACKLIGHT CONTROL ON A 25' POLE. SUITABLE FOR WET LOCATIONS. SIDE HEADS SHALL HAVE INTEGRAL PHOTOCELL TO SWITCH FIXTURES BETWEEN FULL POWER AT NIGHT AND OFF DURING DAY. POLE BASES, ANCHORS, AND CAST-IN-BASE CONDUIT PROVIDED BY PRECAST MANUFACTURER.	CREE MODEL # ARE-EDG-4M-DA-12-E-UL~S25-P ARE-EDG-2M-DA-12-E-UL~S25-P OR APPROVED EQUAL
	S1	LED 4000K 80 CRI	REMOTE ELEC. DRIVER	16	0VOLT	17"x1"x24" LINEAR LED FIXTURE WITH 30" BEAM ANGLE, ON 12" BRACKET, ROTATABLE, WITH REMOTE NEMA 3R POWER SUPPLY BOX. WET LISTED.	ISYSTEMS, V325SA-23BBD, OUTDOOR E89FW PACK VLA2-12 BRACKET
	W	LED 4000K	ELEC. DRIVER	25	0VOLT	EXTERIOR WALL MOUNTED LED LUMINAIRE WITH TWO (2) ELECTRIC DRIVERS AND TYPE II DISTRIBUTION. SUITABLE FOR WET LOCATIONS. INTEGRAL PHOTOCELL MOUNTED AT 10'-0" AFF UNLESS NOTED OTHERWISE.	CREE MODEL # XSPWA-A-0-3-F-G-U~P OR APPROVED EQUAL

NOTES:

- EM - EMERGENCY LIGHT (CIRCUITED FROM EMERGENCY POWER/LIGHTING INVERTER).
- EM NL - UN-SWITCHED NIGHT LIGHT (CIRCUITED FROM EMERGENCY POWER/LIGHTING INVERTER).
- CONTRACTOR SHALL PROVIDE LIGHT FIXTURE SHIELDS AS REQUIRED TO PREVENT LIGHT TRESPASS OVER PROPERTY LINES.
- VERIFY ALL LIGHT FIXTURE MOUNTING TYPES AND COLORS WITH ARCHITECT.
- MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES, TO INDICATE A QUALITY AND PERFORMANCE STANDARD, AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER SHALL BE ACCEPTED.
- FOR ALL LED FIXTURES, THE FIXTURE SHALL BE CAPABLE OF SELF-RESETTING TO THE SWITCHED/CONTROLLED STATE DURING ANY FLUCTUATION IN POWER SUPPLY WHERE AUTOMATIC PROTECTIVE MEASURES DISABLE THE LED LAMPS. PROVIDE A LETTER OR STATEMENT FROM THE MANUFACTURER, OR OTHER ACCEPTABLE PROOF, THAT ALL LED FIXTURES, WITH OR WITHOUT BROWNOUT PROTECTION, SHALL RETURN TO THE SWITCHED/CONTROLLED STATE AUTOMATICALLY. PROVIDE STATEMENT WITH THE FIXTURE SUBMITTALS.

BID DEDUCTS

ALT	DESCRIPTION (REFER TO SHEET G103 FOR MORE INFORMATION)
1	DO NOT PROVIDE CCTV CAMERAS THROUGHOUT THE GARAGE. CCTV CABINET, EQUIPMENT, AND ALL CONDUIT AND CABLING TO EACH CAMERA LOCATION SHALL REMAIN IN BASE BID FOR CONNECTION TO FUTURE CAMERAS PROVIDED BY THE VA.
2	DO NOT PROVIDE ELEVATOR NUMBER 2. HOISTWAY SHAFT IS TO REMAIN, BUT REMOVE ALL EQUIPMENT ASSOCIATED WITH ELEVATOR TWO.
3	REMOVE ALL LANDSCAPING FROM SCOPE EXCEPT FOR THE BIO-RETENTION AREA. REPLACE ALL PLANNED LANDSCAPE AREAS WITH SEEDING. REMOVE THIN SET BRICK FROM SCOPE AND PROVIDE COLORED PRECAST CONC. PCT IN ITS PLACE. REMOVE GLAZING AND STOREFRONT FROM SECONDARY STAIR TOWER. REPLACE OPENINGS WITH FALL DETERRANT DETAIL. REDUCE HEIGHT OF SECONDARY STAIR TO HEIGHT OF TOP LEVEL GARAGE SPANREL (13'-9") AND CONTINUE FALL DETERRANT DETAIL AROUND PERIMETER OF SECONDARY STAIR TOWER. REMOVE PRECAST STAIR COMPONENTS AND RAILINGS FROM LEVEL 1 UP TO LEVEL 3 OF THE THIRD EGRESS STAIR. LEAVE THE REQUIRED STAIR THAT CONNECTS LEVELS 3 AND LEVEL 4 FOR EGRESS. REMOVE GLAZING AND STOREFRONT FROM INTERIOR SIDE OF TOP FLOOR LOBBY AT MAIN STAIR TOWER. GLAZING AND STOREFRONT FROM EXTERIOR SIDE OF TOP FLOOR IS TO REMAIN.
4	DO NOT PROVIDE AREA #1 - LEVEL 4. REFER TO DRAWINGS ON G103 FOR EXTENT OF AREA DEDUCT.
5	DO NOT PROVIDE AREA #2 - LEVEL 4. REFER TO DRAWINGS ON G103 FOR EXTENT OF AREA DEDUCT.
6	DO NOT PROVIDE AREA #3 - LEVEL 4. REFER TO DRAWINGS ON G103 FOR EXTENT OF AREA DEDUCT.
7	DO NOT PROVIDE AREA #4 - LEVEL 3. REFER TO DRAWINGS ON G103 FOR EXTENT OF AREA DEDUCT.

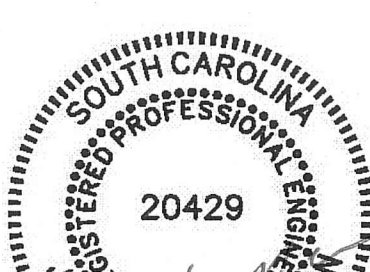
CONSTRUCTION DOCUMENTS

Drawing Title ELECTRICAL NOTES, LEGENDS AND LIGHT FIXTURE SCHEDULE	Project Title CONSTRUCT PARKING GARAGE	A/E Project Number 15.1003	OFFICE OF FACILITIES MANAGEMENT
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	Date 4 DEC 2015	Checked By: JKM	Drawn By: SCB

EE001

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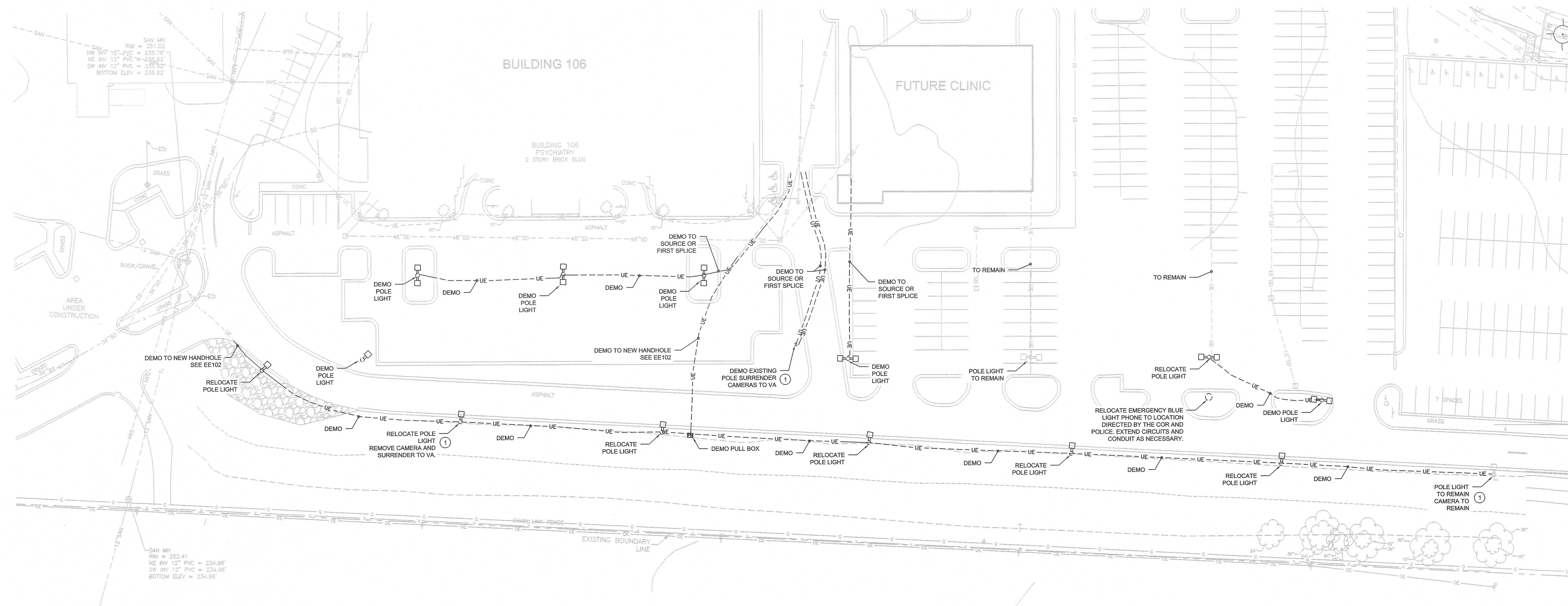
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three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

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1 ELECTRICAL DEMOLITION SITE PLAN
EE101/ 1" = 30'-0"



GENERAL NOTES:

- A. CONTRACTOR SHALL FIELD-VERIFY ALL CONDUIT ROUTING.
- B. ALL WORK AND OUTAGES SHALL BE COORDINATED WITH COR AND WITH OTHER TRADES.
- C. ALL CIRCUIT CONTINUITY SHALL BE MAINTAINED UNLESS EVERY DEVICE ON A CIRCUIT IS BEING DEMOLISHED.
- D. WHERE UNDERGROUND LINES ARE MARKED TO BE DEMOLISHED, REMOVE CONDUCTORS AND DEMO STUB-UPS TO BELOW GRADE. CONDUIT MAY BE ABANDONED UNDERGROUND WHERE IT DOES NOT INTERFERE WITH CONSTRUCTION.

SHEET KEY NOTES:

- 1 PROJECT TO INSTALL CAMERAS, FED FROM THE EAST IS CURRENTLY UNDERWAY AND WILL BE COMPLETED PRIOR TO GARAGE CONSTRUCTION. CONTRACTOR SHALL REMOVE CAMERAS FROM POLES SHOWN AND SURRENDER CAMERAS TO THE VA. CONTRACTOR SHALL DEMOLISH CAMERA POWER AND DATA LINES BACK TO EXISTING-TO-REMAIN CAMERA SHOWN. ALL REMAINING CAMERAS SHALL REMAIN OPERATIONAL.

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CONSTRUCTION DOCUMENTS			
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	Drawn By: SCB		U.S. Department of Veterans Affairs

VA U.S. Department of Veterans Affairs

WILLIAM JENNINGS BRYAN DORN VAMC, COLUMBIA, SC
6439 GARNERS FERRY RD, COLUMBIA, SC 29209



CONSTRUCTION DOCUMENTS						
Drawing Title ELECTRICAL SITE PLAN	Project Title CONSTRUCT PARKING GARAGE			A/E Project Number 15.1003	OFFICE OF FACILITIES MANAGEMENT	
				Building Number BLDG 108		
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location COLUMBIA, SC VAMC			Drawing Number	VA Project Number 544-306	
				Date 4 DEC 2015	Checked By: JKM	Drawn By: SCB

GENERAL NOTES:

- A. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- B. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- C. ALL NORMAL INTERIOR GARAGE LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM 1H1-14.
- D. ALL EMERGENCY (EM) INTERIOR GARAGE LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM 1NVH1-2.
- E. ALL NORMAL EXTERIOR GARAGE WALL MOUNTED LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM 1H1-18.
- F. ALL EXTERIOR WALL MOUNTED LIGHTING SHALL BE MOUNTED DIRECTLY TO SPANDRELS, BOXES AND CONDUIT SHALL NOT BE INSTALLED ON OUTSIDE SURFACE OF GARAGE. CONDUCTORS ARE TO BE ROUTED DIRECTLY THROUGH SPANDREL TO JUNCTION BOX MOUNTED ON THE INSIDE SURFACE OF SPANDREL.
- G. SEE ENLARGEMENT VIEWS FOR CIRCUITING OF DEVICES IN ENLARGEMENT VIEWS.

SHEET KEY NOTES:

- 1 COORDINATE EXACT LOCATION OF CAMERA WITH SECURITY DEPARTMENT PRIOR TO ROUGH-IN.
- 2 LIGHT FIXTURE TO BE FASTENED DIRECTLY TO SPANDREL (CENTERED VERTICALLY). BOXES AND CONDUIT SHALL NOT BE INSTALLED ON OUTSIDE SURFACE OF GARAGE. CONDUCTORS ARE TO BE ROUTED DIRECTLY THROUGH SPANDREL TO JUNCTION BOX MOUNTED ON THE INSIDE SURFACE OF SPANDREL. (TYPICAL OF ALL SPANDREL-MOUNTED FIXTURES.)
- 3 PROVIDE A 3-GANG BOX IN NEMA 4 RATED NONMETALLIC ENCLOSURE AT 18" AFF. BELOW FIRE EXTINGUISHER CABINET FOR FIRE EXTINGUISHER MONITORING DEVICES. CONNECT EACH BOX TO THE FIRE EXTINGUISHER CABINET WITH 3/4" EMT. VERIFY AND COORDINATE WITH FIRE EXTINGUISHER MONITORING PROVIDER. FIRE EXTINGUISHER MONITORING SHALL BE COMPATIBLE WITH HOSPITAL'S EXISTING SYSTEM BY EN-QUAGE.
- 4 PROVIDE EMERGENCY TELEPHONE PEDESTAL WITH BLUE LIGHT. PROVIDE 2-4PR LTP IN 3/4" CONDUIT TO DATA RACK IN IT ROOM (USE FIBER FOR GREATER THAN 285'). TERMINATION BY VA STAIR 3 EMERGENCY PHONES SHALL BE CIRCUITED FROM 1WV1-1-9.
- 5 CIRCUIT ONLY EIGHT (8) TYPE A2 LIGHT FIXTURE AS NOTED VIA ASTRONOMICAL TIME CLOCK TO TURN ON AT DAWN AND OFF AT DUSK. CONTRACTOR TO PROVIDE TIME CLOCK AS REQUIRED.

1 LEVEL 1 ELECTRICAL PLAN
3/32" = 1'-0"



ARCHITECT/ENGINEERS:

PROJECT LEAD
Architect, Civil Engineer

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Drawing Title
LEVEL 1 ELECTRICAL PLAN

Approved for Design Concept:
FACILITY MANAGEMENT
DIVISION MANAGER

CONSTRUCTION DOCUMENTS

Project Title
CONSTRUCT PARKING GARAGE

Location
COLUMBIA, SC VAMC

Date
4 DEC 2015

Checked By:
JKM

Drawn By:
SCB

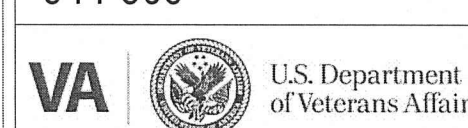
A/E Project Number
15.1003

Building Number
BLDG 108

Drawing Number
EE103

OFFICE OF
FACILITIES
MANAGEMENT

VA Project Number
544-306



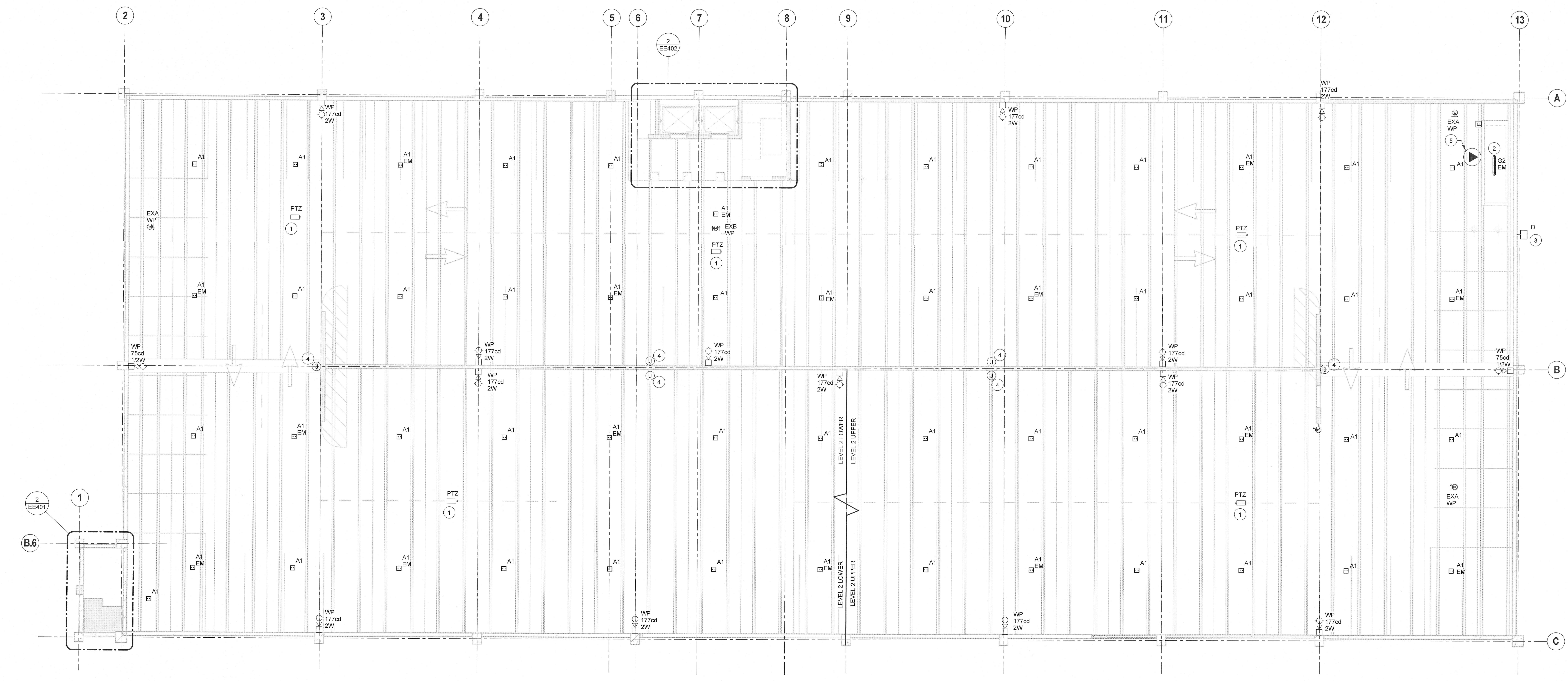
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

GENERAL NOTES:

- A. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG, IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- B. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG, IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- C. ALL NORMAL INTERIOR GARAGE LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM 1N11-16.
- D. ALL EMERGENCY (EM) INTERIOR GARAGE LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM 1N11-4.
- E. ALL NORMAL EXTERIOR GARAGE WALL MOUNTED LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM 1N11-19.
- F. SEE ENLARGEMENT VIEWS FOR CIRCUITING OF DEVICES WITHIN ENLARGEMENT VIEWS.

SHEET KEY NOTES:



- 1. COORDINATE EXACT LOCATION OF CAMERA WITH SECURITY DEPARTMENT PRIOR TO ROUGH-IN.
- 2. INSTALL ON UNDERSIDE OF STAIR, CIRCUIT WITH TYPE A EM FIXTURES ON SAME LEVEL.
- 3. LIGHT FIXTURE TO BE FASTENED DIRECTLY TO SPANDREL (CENTERED VERTICALLY). BOXES AND CONDUIT SHALL NOT BE INSTALLED ON OUTSIDE SURFACE OF GARAGE. CONDUCTORS ARE TO BE ROUTED DIRECTLY THROUGH SPANDREL TO JUNCTION BOX MOUNTED ON THE INSIDE SURFACE OF SPANDREL (TYPICAL OF ALL SPANDREL MOUNTED FIXTURES.)
- 4. PROVIDE A 3-GANG BOX IN NEMA 4 RATED NONMETALLIC ENCLOSURE AT 18" AFF BELOW FIRE EXTINGUISHER MONITORING DEVICES. CONNECT EACH BOX TO THE FIRE EXTINGUISHER CABINET WITH 3/4" EMT. VERIFY AND COORDINATE WITH FIRE EXTINGUISHER MONITORING PROVIDER. FIRE EXTINGUISHER MONITORING SHALL BE COMPATIBLE WITH HOSPITAL'S EXISTING SYSTEM BY ENGAGE.
- 5. PROVIDE EMERGENCY TELEPHONE PEDESTAL WITH BLUE LIGHT. PROVIDE 2-4PR UTP IN 3/4" CONDUIT TO DATA RACK IN IT ROOM (USE FIBER FOR GREATER THAN 285'). TERMINATION BY VA, STAR 3 EMERGENCY PHONES SHALL BE CIRCUITED FROM 1N11-9.



1 LEVEL 2 ELECTRICAL PLAN
3/32" = 1'-0"

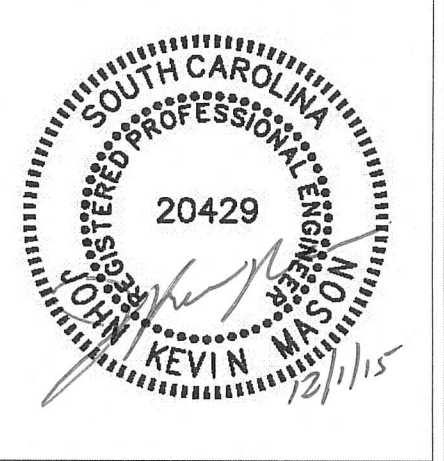


Revisions:	Date:



U.S. Department of Veterans Affairs

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CONSTRUCTION DOCUMENTS				
Drawing Title LEVEL 2 ELECTRICAL PLAN		Project Title CONSTRUCT PARKING GARAGE		A/E Project Number 15.1003
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER		Location COLUMBIA, SC VAMC		Building Number BLDG 108
Date 4 DEC 2015		Checked By: JKM	Drawn By: SCB	Drawing Number EE104
		VA Project Number 544-306		OFFICE OF FACILITIES MANAGEMENT
				U.S. Department of Veterans Affairs

GENERAL NOTES:

- A. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- B. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- C. ALL NORMAL INTERIOR GARAGE LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM 1H1-18.
- D. ALL EMERGENCY (EM) INTERIOR GARAGE LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM 1H1-18.
- E. SEE ENLARGEMENT VIEWS FOR CIRCUITING OF DEVICES WITHIN ENLARGEMENT VIEWS.

SHEET KEY NOTES:

1. COORDINATE EXACT LOCATION OF CAMERA WITH SECURITY DEPARTMENT PRIOR TO ROUGH-IN.
2. INSTALL ON UNDERSIDE OF STAIR. CIRCUIT WITH TYPE A EM FIXTURES ON SAME LEVEL.
3. PROVIDE A 3-GANG BOX IN NEMA 4 RATED NONMETALLIC ENCLOSURE AT 18" AFF. BELOW FIRE EXTINGUISHER CABINET FOR FIRE EXTINGUISHER MONITORING DEVICES. CONNECT EACH BOX TO THE FIRE EXTINGUISHER CABINET WITH 3/4" EMT. VERIFY AND COORDINATE WITH FIRE EXTINGUISHER MONITORING PROVIDER. FIRE EXTINGUISHER MONITORING SHALL BE COMPATIBLE WITH HOSPITAL'S EXISTING SYSTEM BY EN-GUAGE.
4. PROVIDE EMERGENCY TELEPHONE PEDESTAL WITH BLUE LIGHT. PROVIDE 2-4PR UTP IN 3/4" CONDUIT TO DATA RACK IN IT ROOM USE FIBER FOR GREATER THAN 265'. TERMINATION BY VA. STAIR 3 EMERGENCY PHONES SHALL BE CIRCUITED FROM 1H1-18

1 LEVEL 3 ELECTRICAL PLAN
EE105 3/32" = 1'-0"



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Drawing Title
LEVEL 3 ELECTRICAL PLAN

Approved for Design Concept:
FACILITY MANAGEMENT
DIVISION MANAGER

CONSTRUCTION DOCUMENTS

Project Title
CONSTRUCT PARKING GARAGE

Location
COLUMBIA, SC VAMC

Date
4 DEC 2015

Checked By:
JKM

Drawn By:
SCB

A/E Project Number
15.1003
Building Number
BLDG 108

Drawing Number
EE105

OFFICE OF
FACILITIES
MANAGEMENT

VA Project Number
544-306
VA U.S. Department
of Veterans Affairs

GENERAL NOTES:

- A. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- B. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- C. ALL NORMAL EXTERIOR GARAGE POLE LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM H1-20.
- D. ALL EMERGENCY (EM) EXTERIOR GARAGE POLE LIGHTING ON THIS SHEET SHALL BE CIRCUITED FROM INVH1-8.
- E. SEE ENLARGEMENT VIEWS FOR CIRCUITING OF DEVICES WITHIN ENLARGEMENT VIEWS.

SHEET KEY NOTES:

- 1 PTZ CAMERA TO BE MOUNTED ON POLE 15'-0" ABOVE LEVEL 4. COORDINATE EXACT LOCATION OF CAMERA WITH SECURITY DEPARTMENT PRIOR TO ROUGH-IN. COPPER CABLING WITHIN LIGHT POLE SHALL HAVE 600V-RATED INSULATION AND INSTALLED IN INNERDUCT.
- 2 CORNER MOUNTED PTZ CAMERA. COORDINATE EXACT LOCATION OF CAMERA WITH SECURITY DEPARTMENT PRIOR TO ROUGH-IN.
- 3 PROVIDE A 3-GANG BOX IN NEMA 4 RATED NONMETALLIC ENCLOSURE AT 18" AFF. BELOW FIRE EXTINGUISHER CABINET FOR FIRE EXTINGUISHER MONITORING DEVICES. CONNECT EACH BOX TO THE FIRE EXTINGUISHER CABINET WITH 3/4" EMT. VERIFY AND COORDINATE WITH FIRE EXTINGUISHER MONITORING PROVIDER. FIRE EXTINGUISHER MONITORING SHALL BE COMPATIBLE WITH HOSPITAL'S EXISTING SYSTEM BY EN-GUAGE.
- 4 PROVIDE EMERGENCY TELEPHONE PEDESTAL WITH BLUE LIGHT. PROVIDE 2-4PR UTP IN 3/4" CONDUIT TO DATA RACK IN IT ROOM (USE FIBER FOR GREATER THAN 250'). TERMINATION BY VA. STAIR 3 EMERGENCY PHONES SHALL BE CIRCUITED FROM INV1-9.
- 5 INSTALL ON UNDERSIDE OF CANOPY. CIRCUIT WITH TYPE A EM FIXTURES ON LEVEL 3.
- 6 INSTALL SPEAKER ON POLE. CABLING WITHIN POLE SHALL HAVE 600V-RATED INSULATION AND INSTALLED IN INNERDUCT.

LIGHTNING PROTECTION SYSTEM

PROVIDE A U.L. MASTER LABEL LIGHTNING PROTECTION SYSTEM WHICH COMPLIES WITH NEC, NFPA 780, AND UL 96A. SYSTEM TO CONSIST OF AIR TERMINALS (LIGHTNING RODS) SPACED AT 20 FEET ON CENTER ALONG THE PERIMETER, WITHIN 2 FEET OF EACH CORNER AND AT 50 FOOT SPACING IN MID-ROOF. CONNECTED TO HEAVY CABLES EXTENDED TO GROUNDING RODS MINIMUM 10 FEET IN DEPTH. INSTALL TRANSIENT SURGE SUPPRESSORS AT ELECTRICAL AND TELEPHONE SERVICE ENTRIES. BOND LIGHTNING PROTECTION SYSTEM TO BUILDING GROUNDING ELECTRODE SYSTEM.

1 LEVEL 4 ELECTRICAL PLAN
EE106 3/32" = 1'-0"



U.S. Department
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Drawing Title
LEVEL 4 ELECTRICAL PLAN

Approved for Design Concept:
FACILITY MANAGEMENT
DIVISION MANAGER

CONSTRUCTION DOCUMENTS

Project Title
CONSTRUCT PARKING GARAGE

Location
COLUMBIA, SC VAMC

Date
4 DEC 2015

Checked By:
JKM

Drawn By:
SCB

A/E Project Number
15.1003

Building Number
BLDG 108

Drawing Number
EE106

OFFICE OF
FACILITIES
MANAGEMENT

VA Project Number
544-306



three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

A

B

C

D

E

F

Sheet EE401-1-888-Electrical_Stacked.DWG, V1



VA U.S. Department of Veterans Affairs

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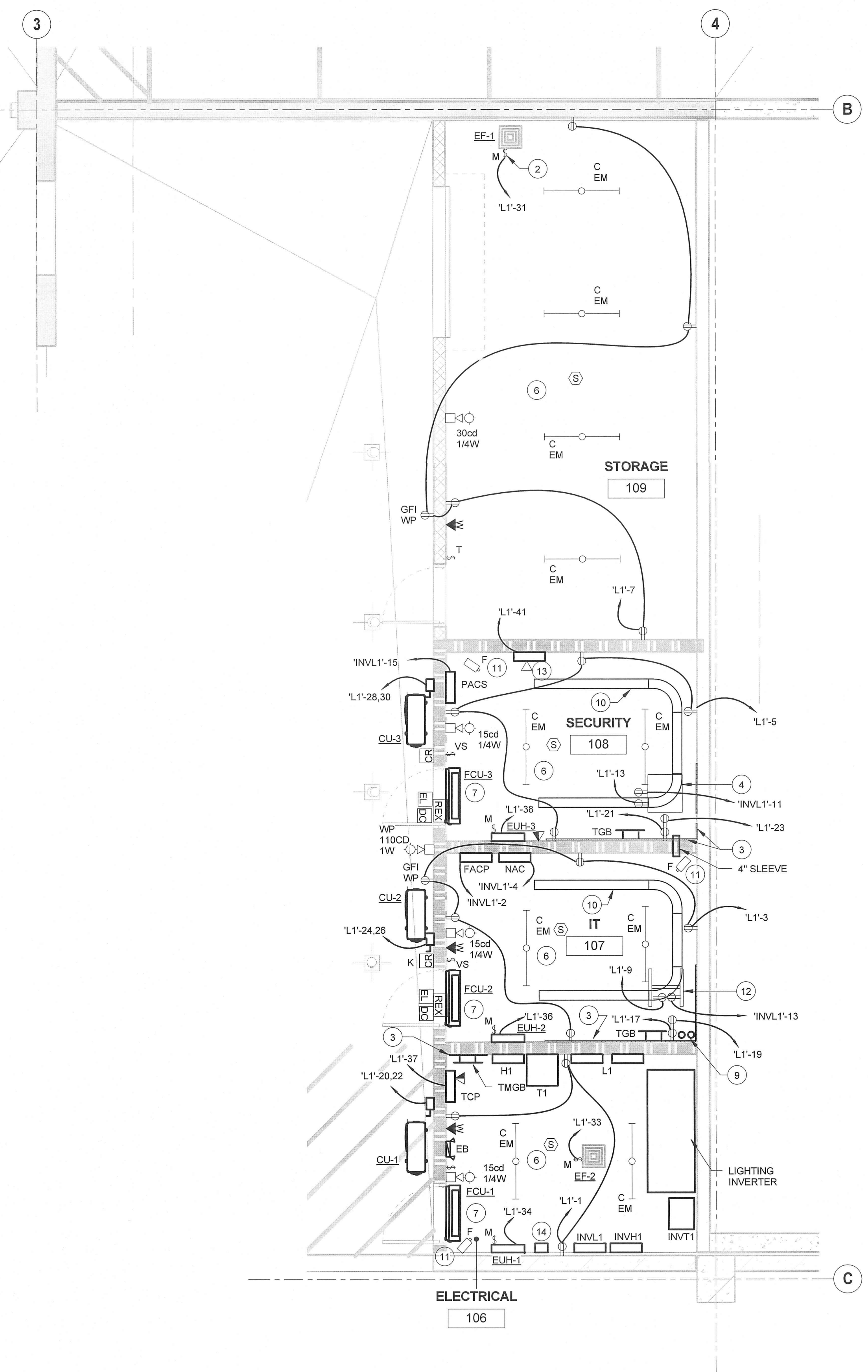
CONSTRUCTION DOCUMENTS					
Drawing Title ELECTRICAL ENLARGEMENTS	Project Title CONSTRUCT PARKING GARAGE		A/E Project Number 15.1003	OFFICE OF FACILITIES MANAGEMENT	
			Building Number BLDG 108		
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location COLUMBIA, SC VAMC		Drawing Number	VA Project Number 544-306	
	Date 4 DEC 2015	Checked By: JKM	Drawn By: SCB	<div>EE401</div> <div>VAU.S. Department of Veterans Affairs</div>	

GENERAL NOTES:

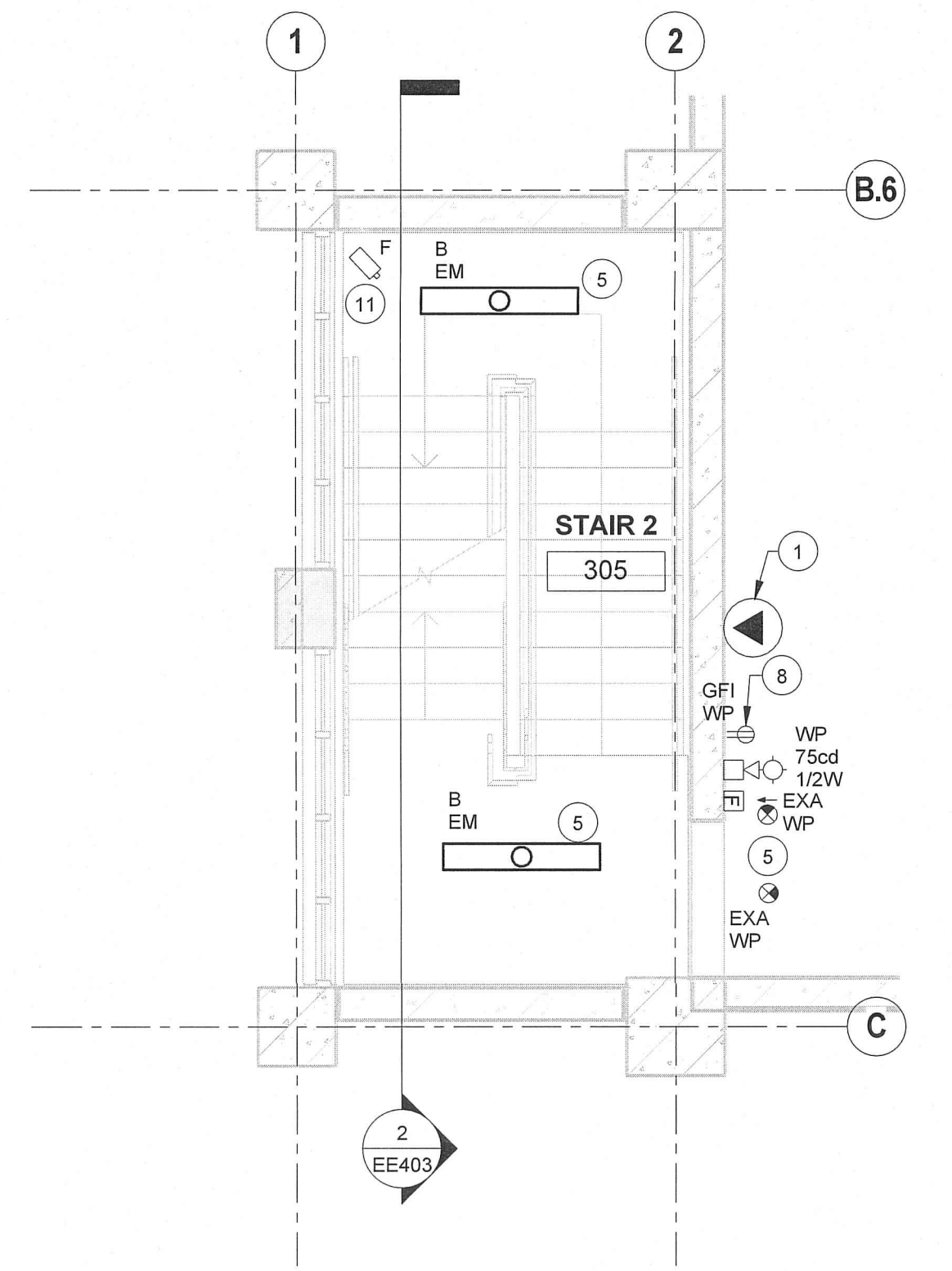
- ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- VERIFY LOCATION AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
- SEE SHEET EE601 FOR EQUIPMENT CONDUCTOR SCHEDULE.
- ALL EXTERIOR WALL MOUNTED LIGHTING SHALL BE MOUNTED DIRECTLY TO SPANDRELS. BOXES AND CONDUIT SHALL NOT BE INSTALLED ON OUTSIDE SURFACE OF GARAGE. CONDUCTORS ARE TO BE ROUTED DIRECTLY THROUGH SPANDREL TO JUNCTION BOX MOUNTED ON THE INSIDE SURFACE OF SPANDREL.

SHEET KEY NOTES:

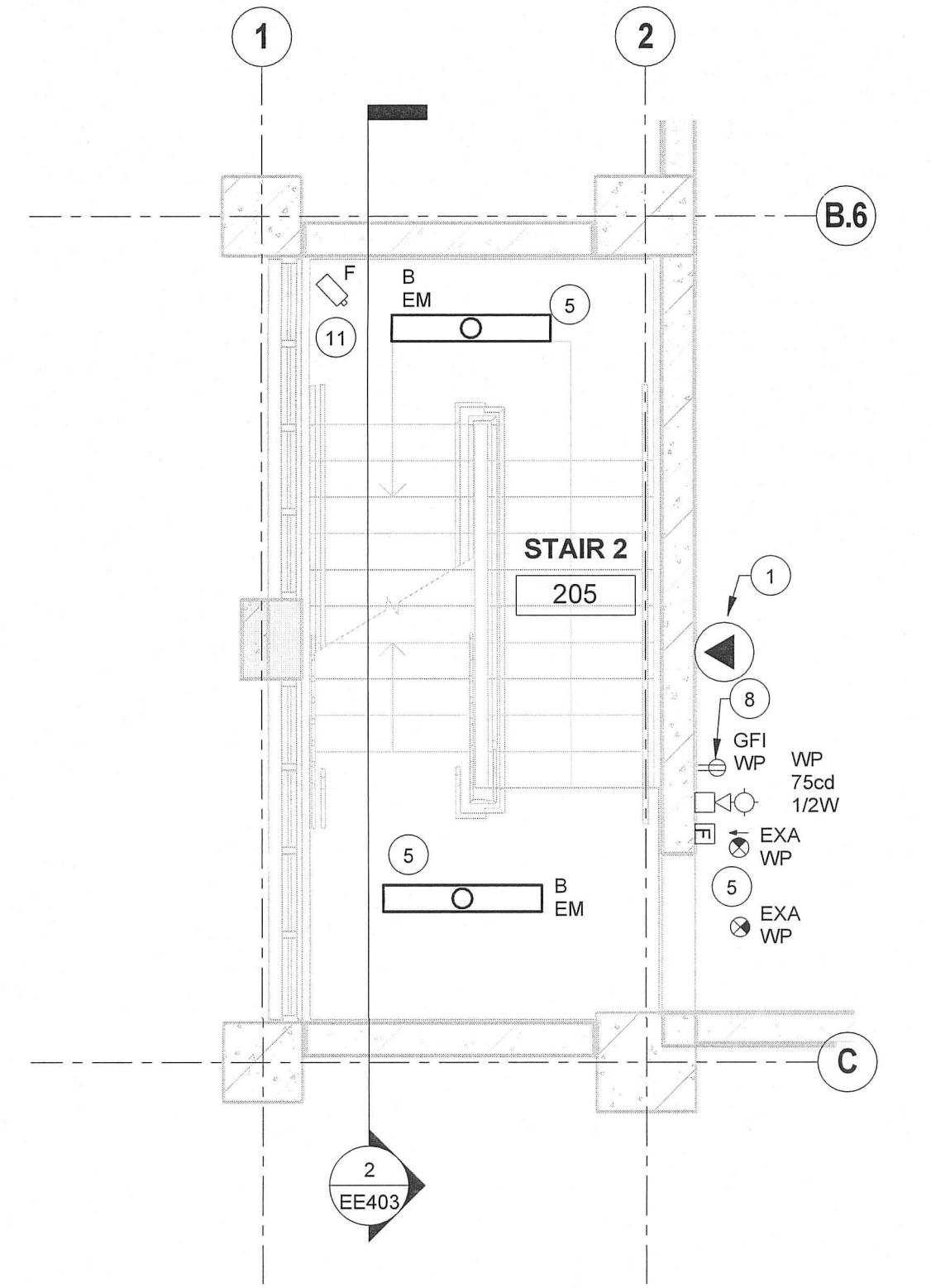
- PROVIDE EMERGENCY TELEPHONE PEDESTAL WITH BLUE LIGHT. PROVIDE 2-4PR UTP IN 3/4" CONDUIT TO DATA RACK IN IT ROOM (USE FIBER FOR GREATER THAN 2895'). TERMINATION BY V.A. STAIR 2 EMERGENCY PHONES SHALL BE CIRCUITED FROM INVH1-7
- PROVIDE RELAY WITH 277V COIL TO CONTROL 120 VOLT FAN WITH 277 VOLT LIGHTING CIRCUIT SO THAT FAN IS CONTROLLED WITH LIGHTS.
- PROVIDE WALL MOUNTED 4'X8'X3/4" PLYWOOD COMMUNICATIONS BACKBOARD. PLYWOOD SHALL BE FIRE-RATED AND SHALL CARRY LABEL WITH FIRE-RATING.
- PROVIDE 19" CCTV CABINET PER DETAIL 6/EE502.
- ALL STAIR 2 LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED FROM INVH1-5.
- ALL LIGHTING IN ELECTRICAL 106, IT 107, SECURITY 108 AND STORAGE 109 SHALL BE CIRCUITED FROM INVH1-9.
- FAN COIL UNIT (FCU) POWERED FROM OUTDOOR CONDENSING UNIT (CU).
- CIRCUIT STAIR 2 RECEPTACLES FROM 'L1'-25.
- INCOMING SIGNAL CONDUIT STUB-UP (FROM FREEDOM HEALTH CENTER) SHALL BE BY 90-DEGREE SWEEP.
- PROVIDE CABLE LADDER TRAY PER DETAILS ON SHEET EE502.
- COORDINATE EXACT LOCATION OF CAMERA WITH SECURITY DEPARTMENT PRIOR TO ROUGH-IN.
- PROVIDE TWO-POST 19" TELECOMMUNICATIONS RACK WITH VERTICAL AND HORIZONTAL WIRE MANAGEMENT. SEE DETAIL 6/EE502.
- PROVIDE FIRE EXTINGUISHER MONITORING CABINET AND DATA DROP. FIRE EXTINGUISHER MONITORING SYSTEM SHALL BE COMPATIBLE WITH EXISTING HOSPITAL SYSTEM BY EN-GUAGE.
- TIME CLOCK FOR EIGHT (8) TYPE A2 PARKING GARAGE ENTRY LIGHTS. SEE E-103 FOR FIXTURE LOCATIONS.



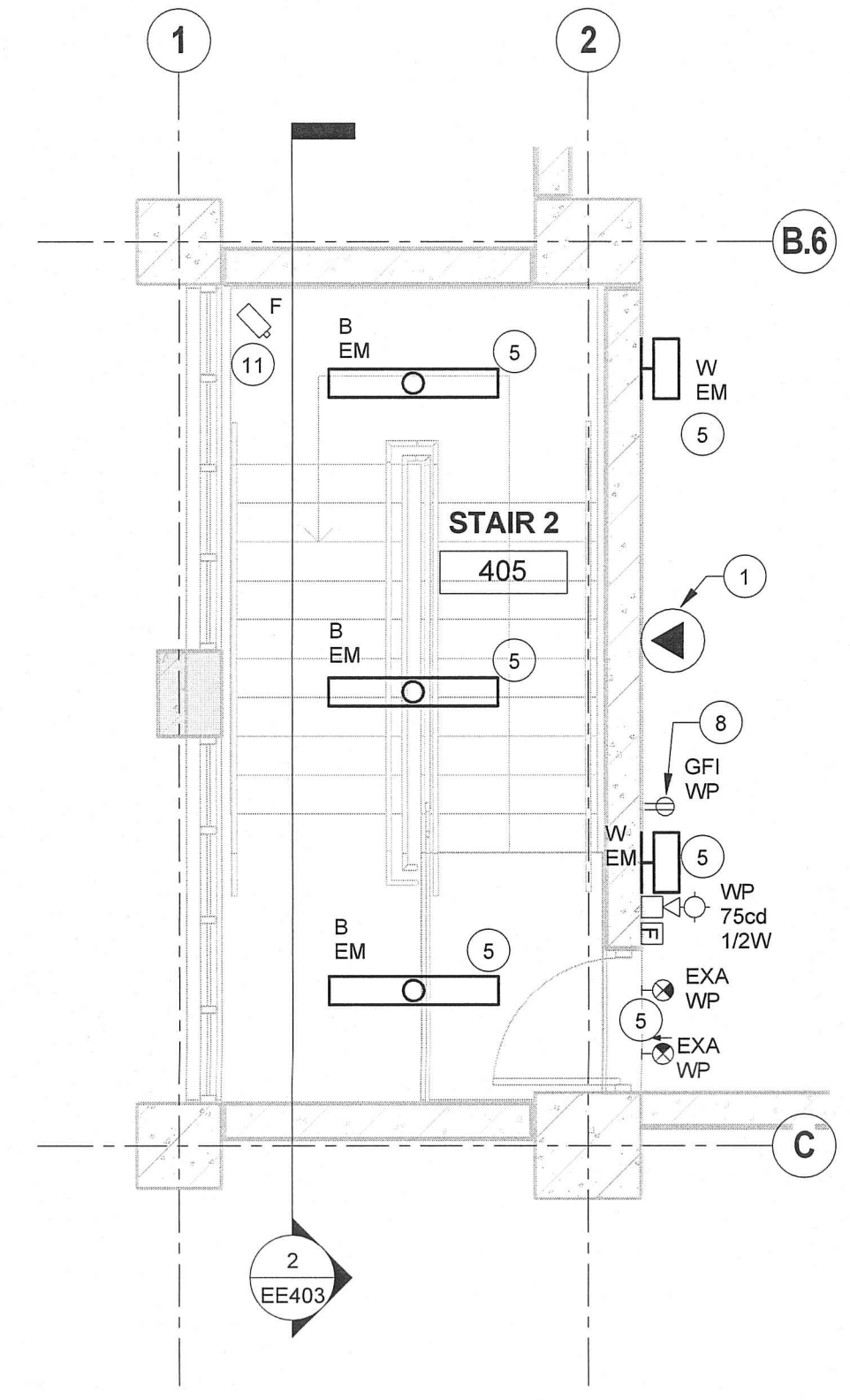
5 LEVEL 1 ELECTRICAL ENLARGEMENT
EE401/ 1/4" = 1'-0"



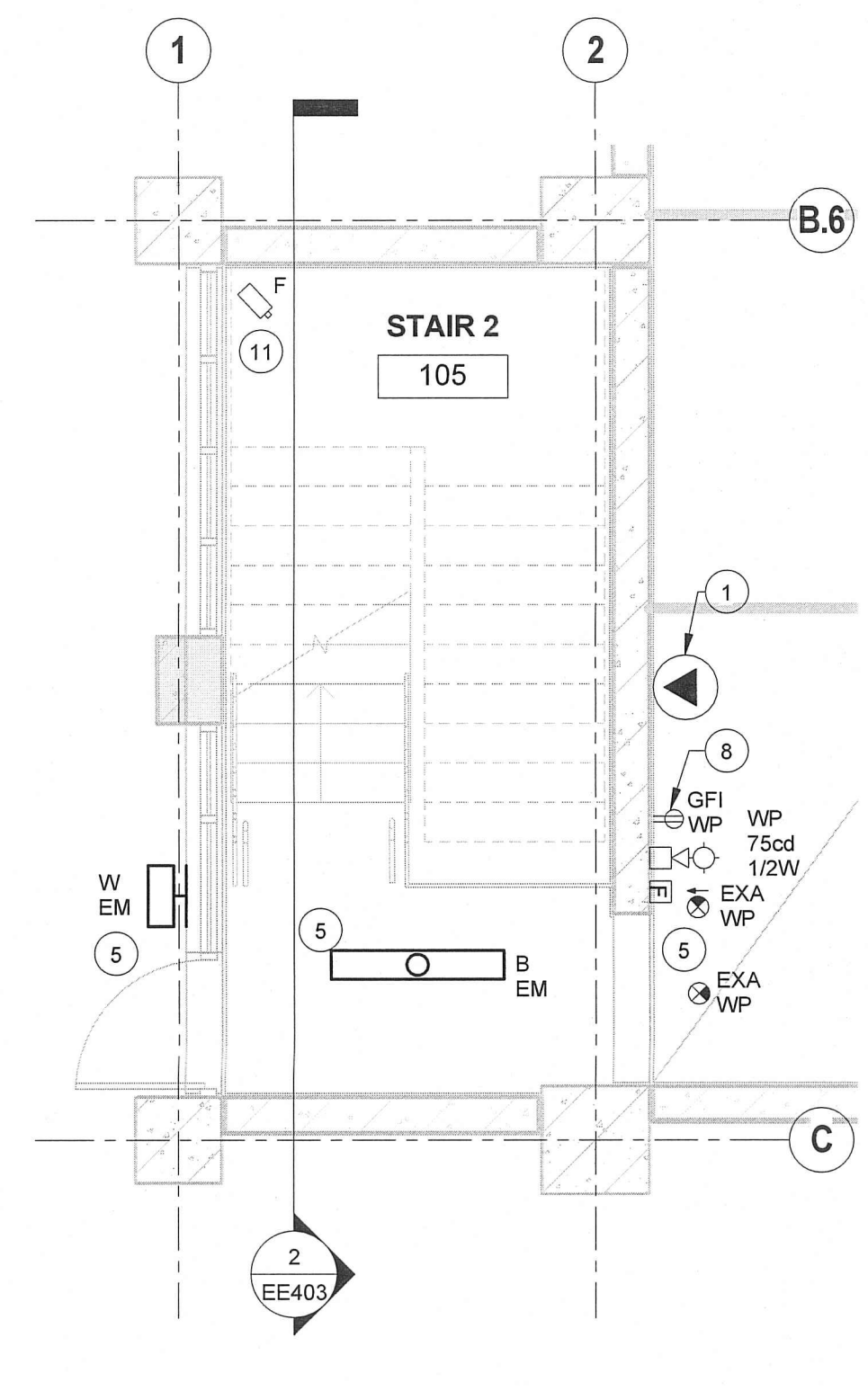
3 LEVEL 3 STAIR 2 ELECTRICAL ENLARGEMENT
EE401/ 1/4" = 1'-0"



2 LEVEL 2 STAIR 2 ELECTRICAL ENLARGEMENT
EE401/ 1/4" = 1'-0"



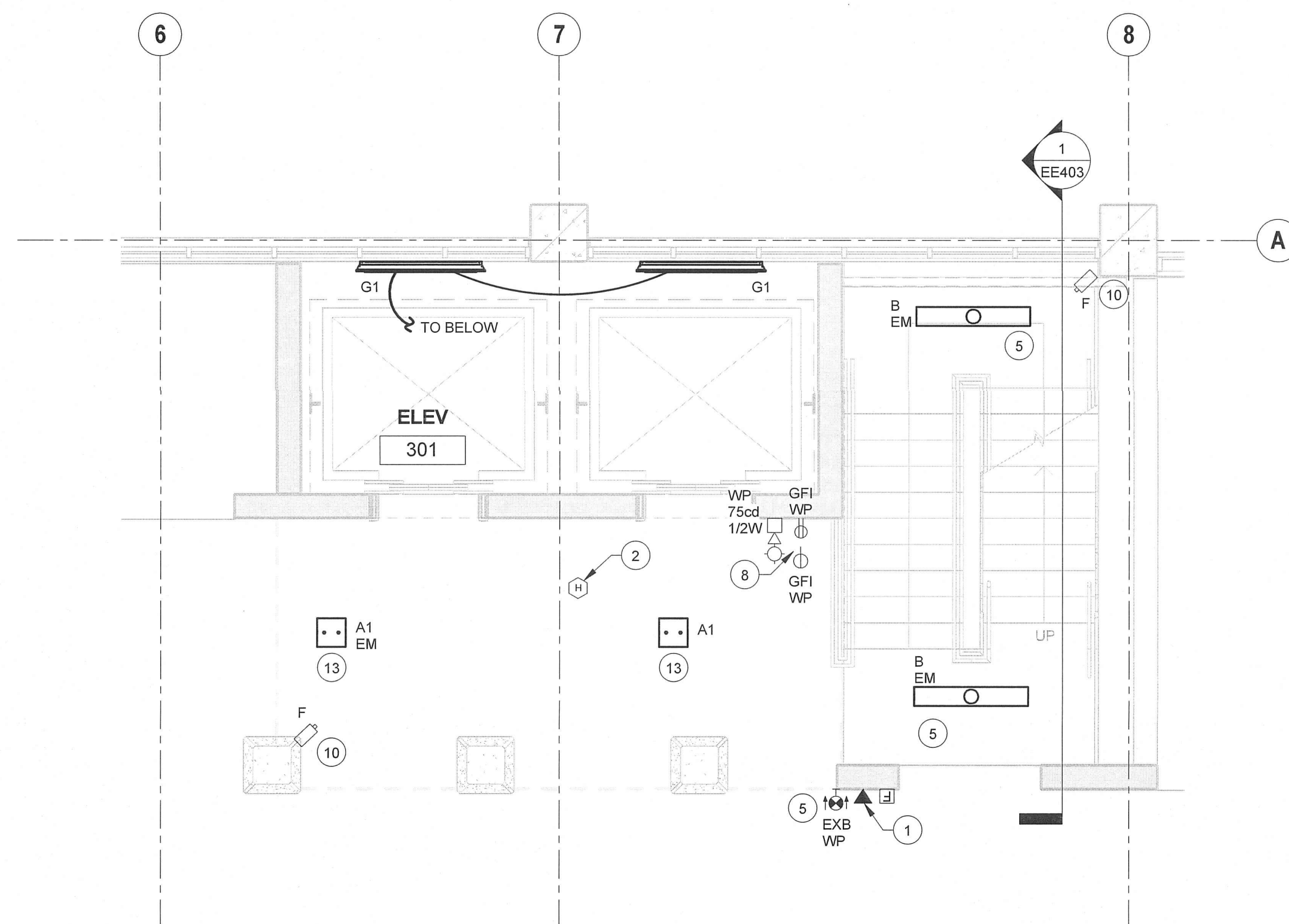
4 LEVEL 4 STAIR 2 ELECTRICAL ENLARGEMENT
EE401/ 1/4" = 1'-0"



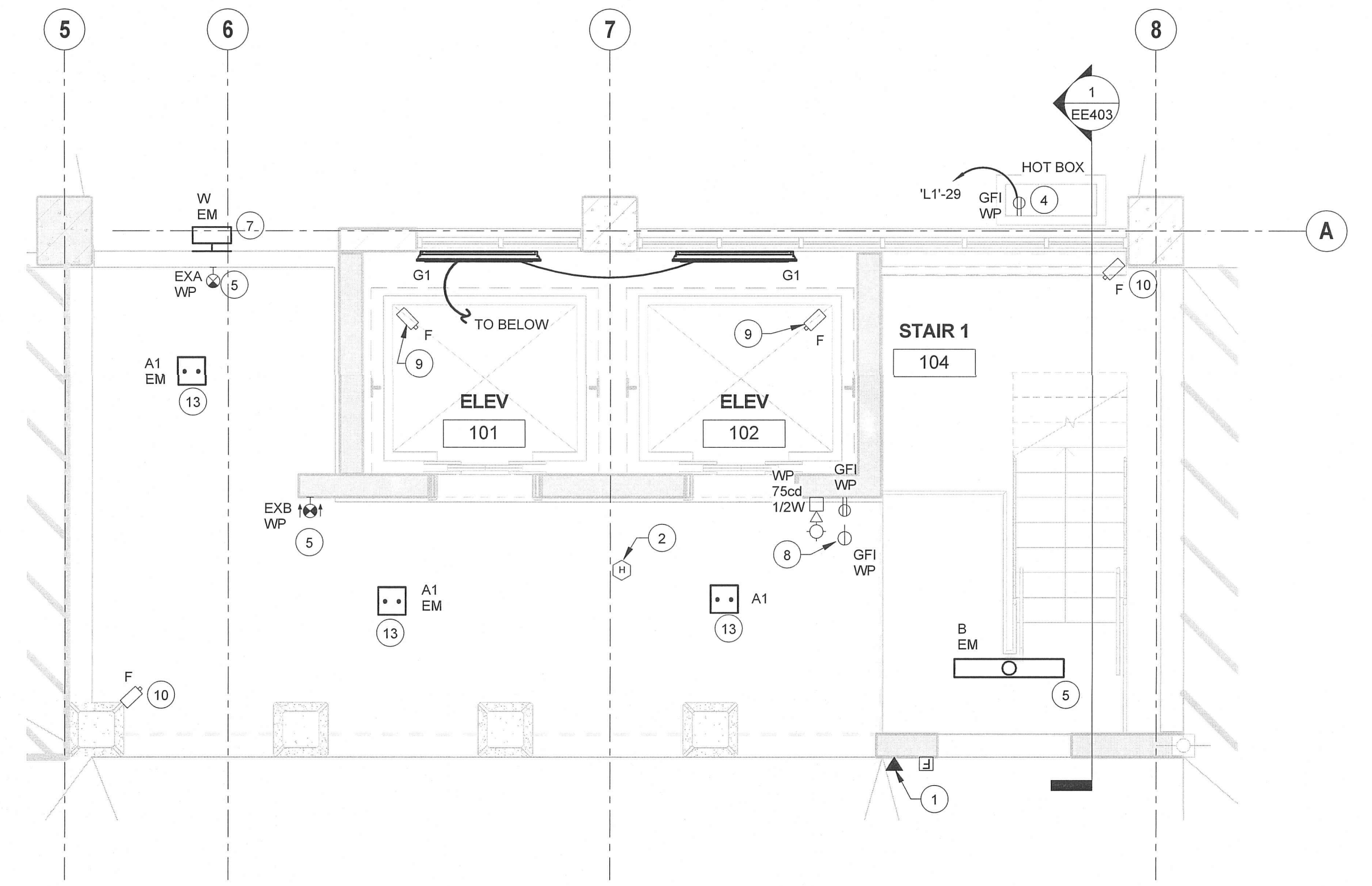
1 LEVEL 1 STAIR 2 ELECTRICAL ENLARGEMENT
EE401/ 1/4" = 1'-0"

A three inches = one foot
B one and one half inches = one foot
C one inch = one foot
D three quarters inch = one foot
E one half inch = one foot
F three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
C:\Revit\14-888-Electrical_sheets\DXL.dwg

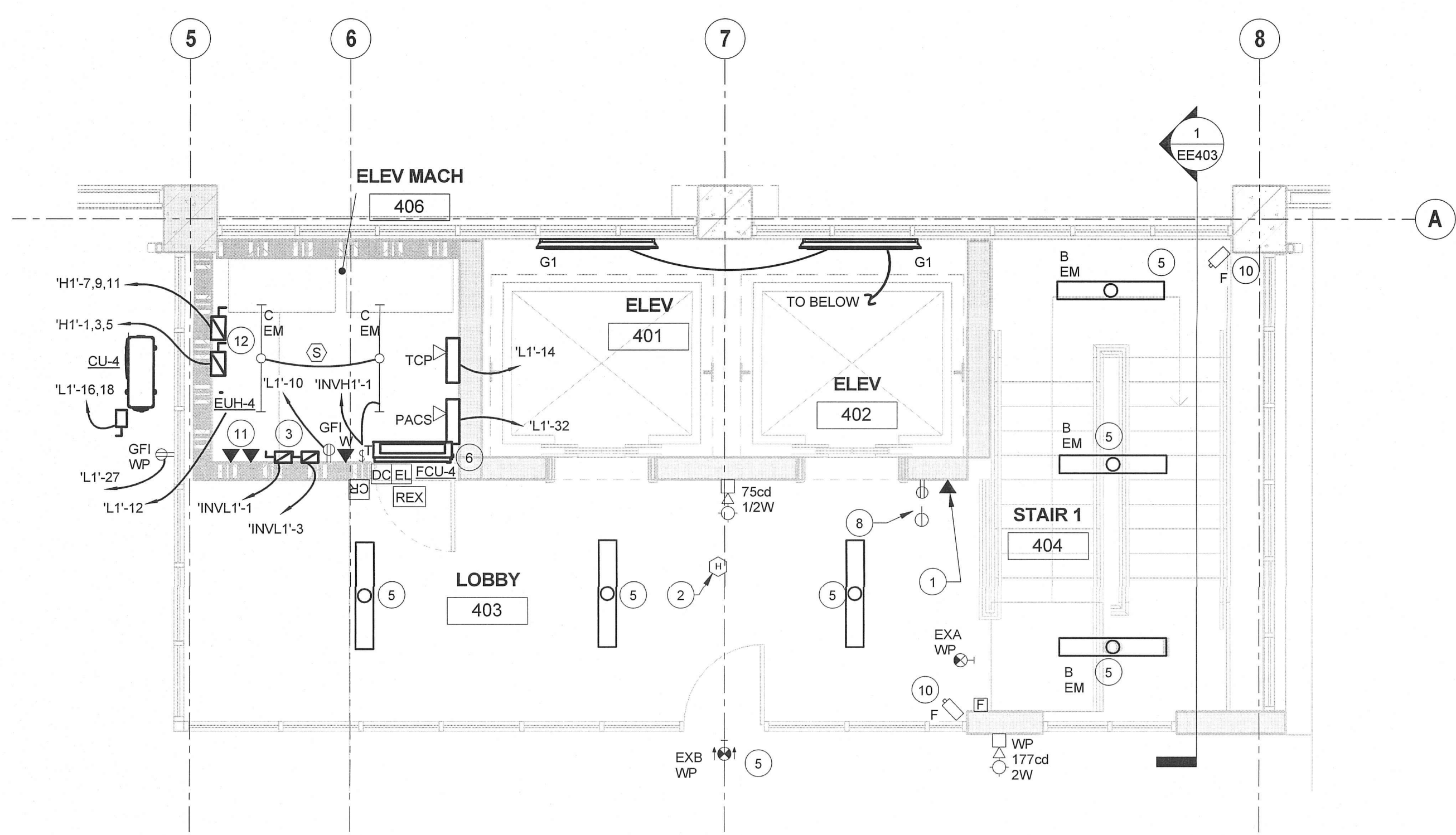
- GENERAL NOTES:**
- A. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
 - B. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG. IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
 - C. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
 - D. SEE SHEET EE801 FOR EQUIPMENT CONDUCTOR SCHEDULE.
 - E. ALL EXTERIOR WALL MOUNTED LIGHTING SHALL BE MOUNTED DIRECTLY TO SPANDRELS. BOXES AND CONDUIT SHALL NOT BE INSTALLED ON OUTSIDE SURFACE OF GARAGE. CONDUCTORS ARE TO BE ROUTED DIRECTLY THROUGH SPANDREL TO JUNCTION BOX MOUNTED ON THE INSIDE SURFACE OF SPANDREL.



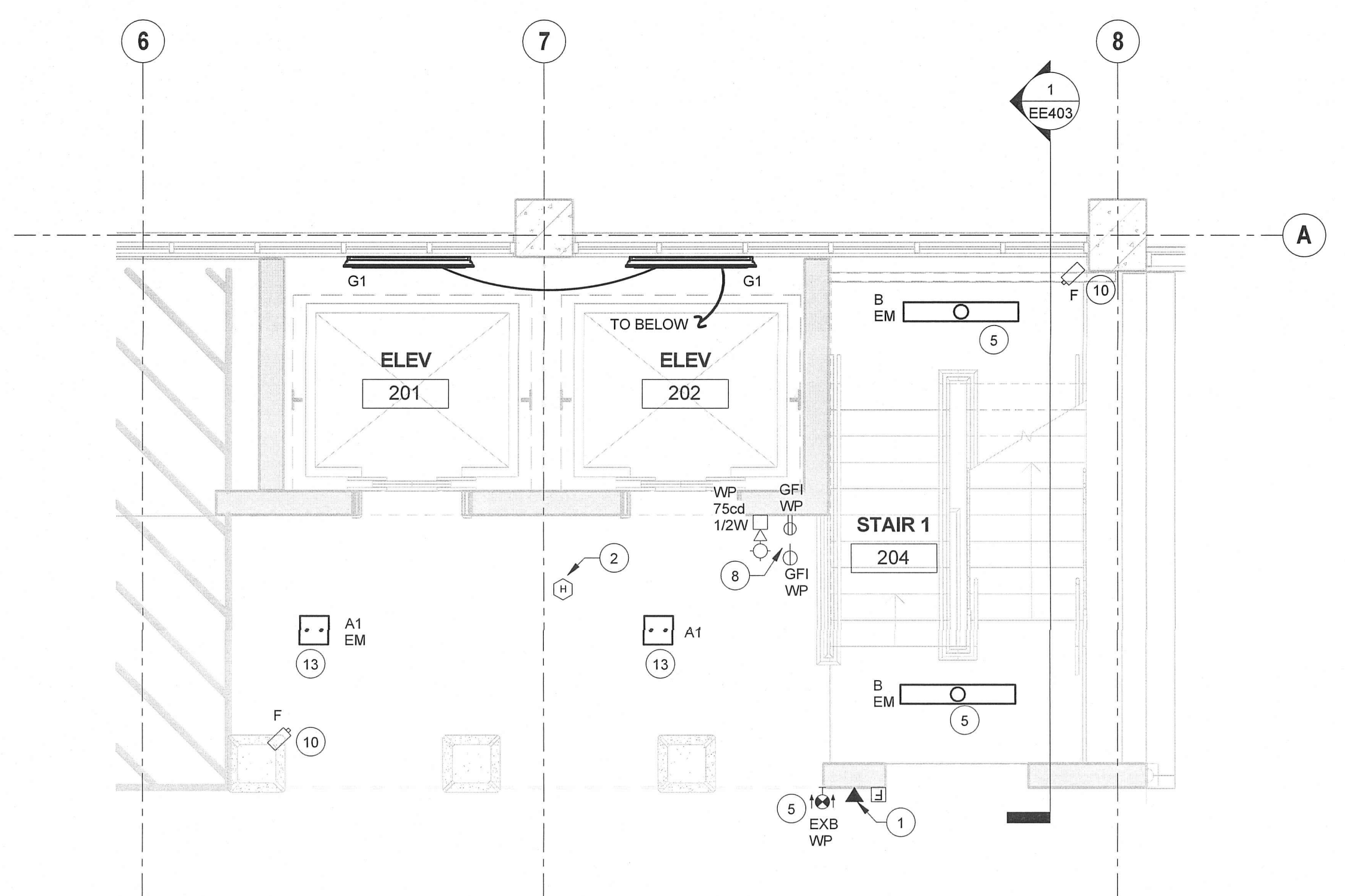
3 LEVEL 3 STAIR 1 ELECTRICAL ENLARGEMENT
1/4" = 1'-0"



1 LEVEL 1 STAIR 1 ELECTRICAL ENLARGEMENT
1/4" = 1'-0"



4 LEVEL 4 STAIR 1 ELECTRICAL ENLARGEMENT
1/4" = 1'-0"



2 LEVEL 2 STAIR 1 ELECTRICAL ENLARGEMENT
1/4" = 1'-0"

SHEET KEY NOTES:

- 1 PROVIDE EMERGENCY TELEPHONE CALL BOX WITH BLUE LIGHT. PROVIDE 2-4PR UTP CABLE IN 3/4" CONDUIT TO DATA RACK IN IT ROOM (USE FIBER FOR RUNS GREATER THAN 285'). TERMINATION BY VA, STAIR 1 EMERGENCY PHONES SHALL BE CIRCUITED FROM INVNL1-5
- 2 INSTALL WITHIN 21" OF THE CENTERLINE OF EACH ELEVATOR DOOR.
- 3 PROVIDE 1P-30A FUSED DISCONNECT, FUSED AT 20A FOR EACH ELEVATOR CAB. COORDINATE LOCATION WITH ELEVATOR INSTALLER.
- 4 PROVIDE GFI, WEATHERPROOF RECEPTACLE INSIDE HOT BOX FOR HOT BOX POWER.
- 5 ALL STAIR 1 AND LEVEL 4 ELEVATOR LOBBY LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED FROM INVNL1-3.
- 6 FAN COIL UNIT (FCU) POWERED FROM OUTDOOR CONDENSING UNIT (CU).
- 7 CIRCUIT WITH TYPE A (EM) FIXTURES ON LEVEL 1.
- 8 CIRCUIT STAIR 1 RECEPTACLES FROM L1-27. PROVIDE SIMPLEX RECEPTACLE AT 8' AFF FOR FIRE EXTINGUISHER MONITORING WIRELESS REPEATER. COORDINATE WITH FIRE EXTINGUISHER MONITORING PROVIDER.
- 9 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CEILING MOUNTED FIXED DOME IP CAMERA IN EACH ELEVATOR CAB. VERIFY AND COORDINATE WITH ELEVATOR INSTALLER. COORDINATE CAMERA ANGLES WITH OWNER.
- 10 COORDINATE EXACT LOCATION OF CAMERA WITH SECURITY DEPARTMENT PRIOR TO ROUGH-IN.
- 11 PROVIDE 4 PR UTP IN 3/4" CONDUIT TO TT8 IN IT ROOM FOR EACH ELEVATOR CAB. VERIFY AND COORDINATE LOCATION WITH ELEVATOR INSTALLER.
- 12 PROVIDE 3P-100A FUSED DISCONNECT FOR EACH ELEVATOR. FUSE PER ELEVATOR NAMEPLATE. COORDINATE WITH ELEVATOR INSTALLER.
- 13 CIRCUIT TYPE A AND TYPE A (EM) FIXTURE WITH OTHER TYPE A AND TYPE A (EM) FIXTURES ON SAME LEVEL.



Revisions:	Date



U.S. Department of Veterans Affairs

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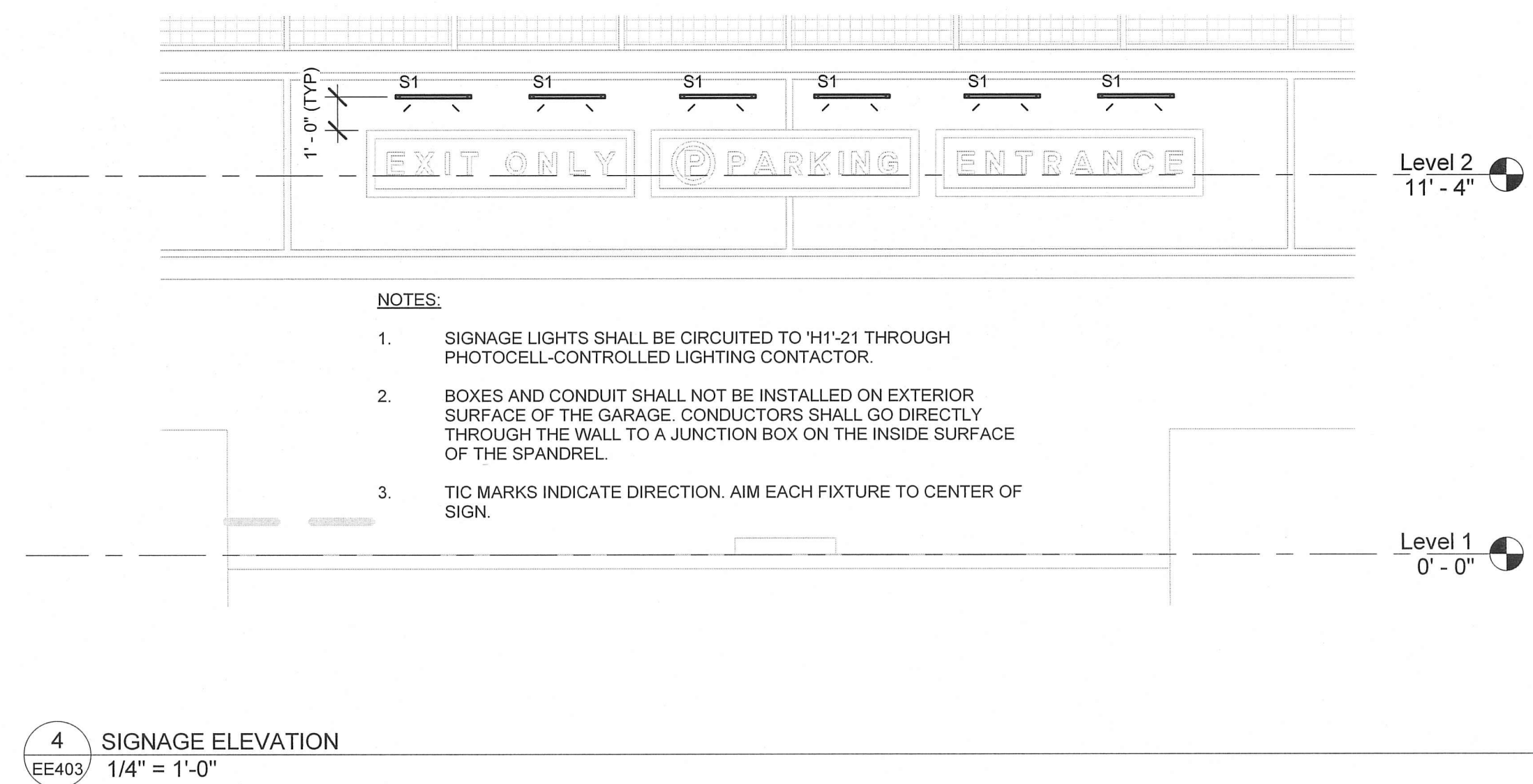
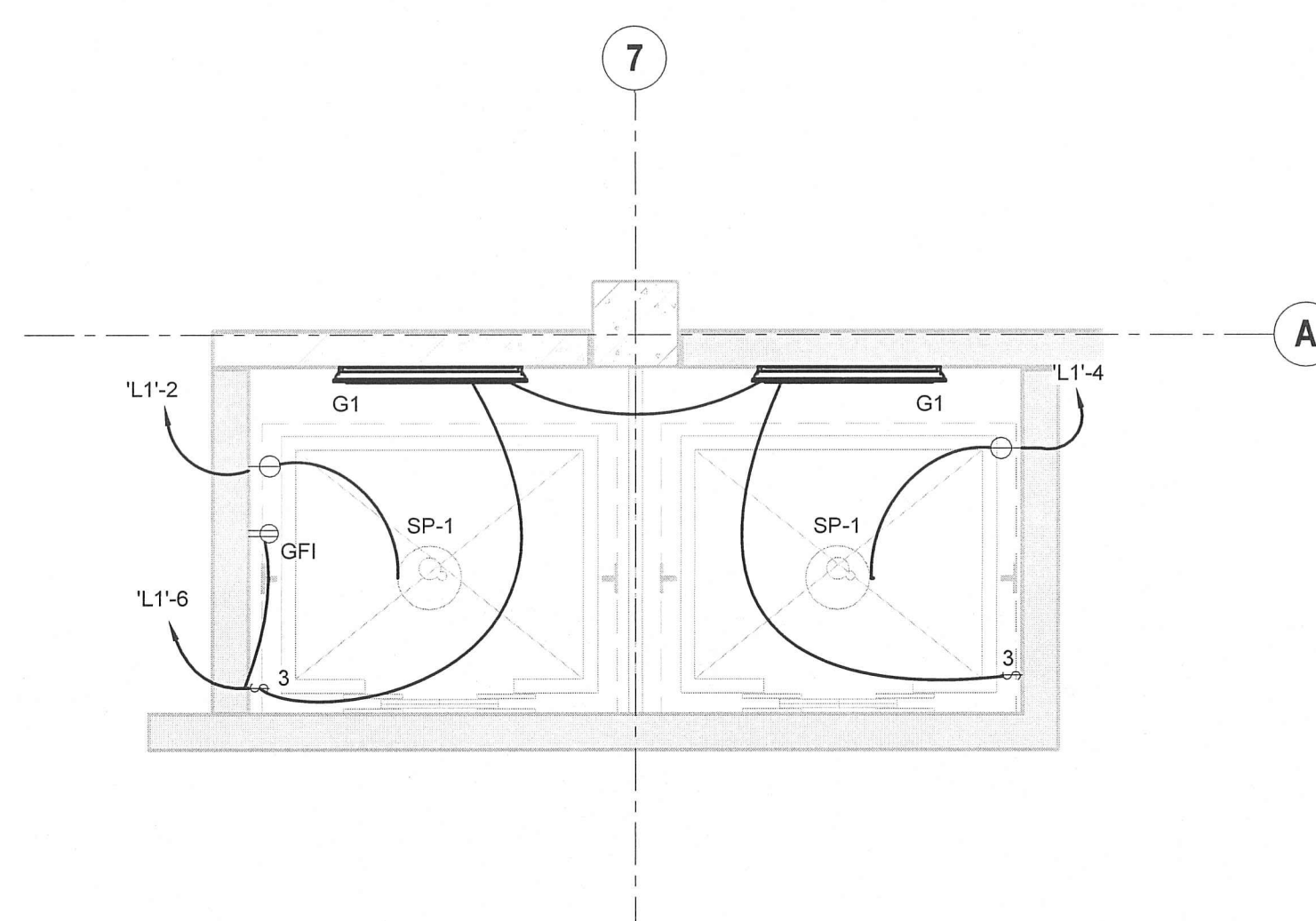
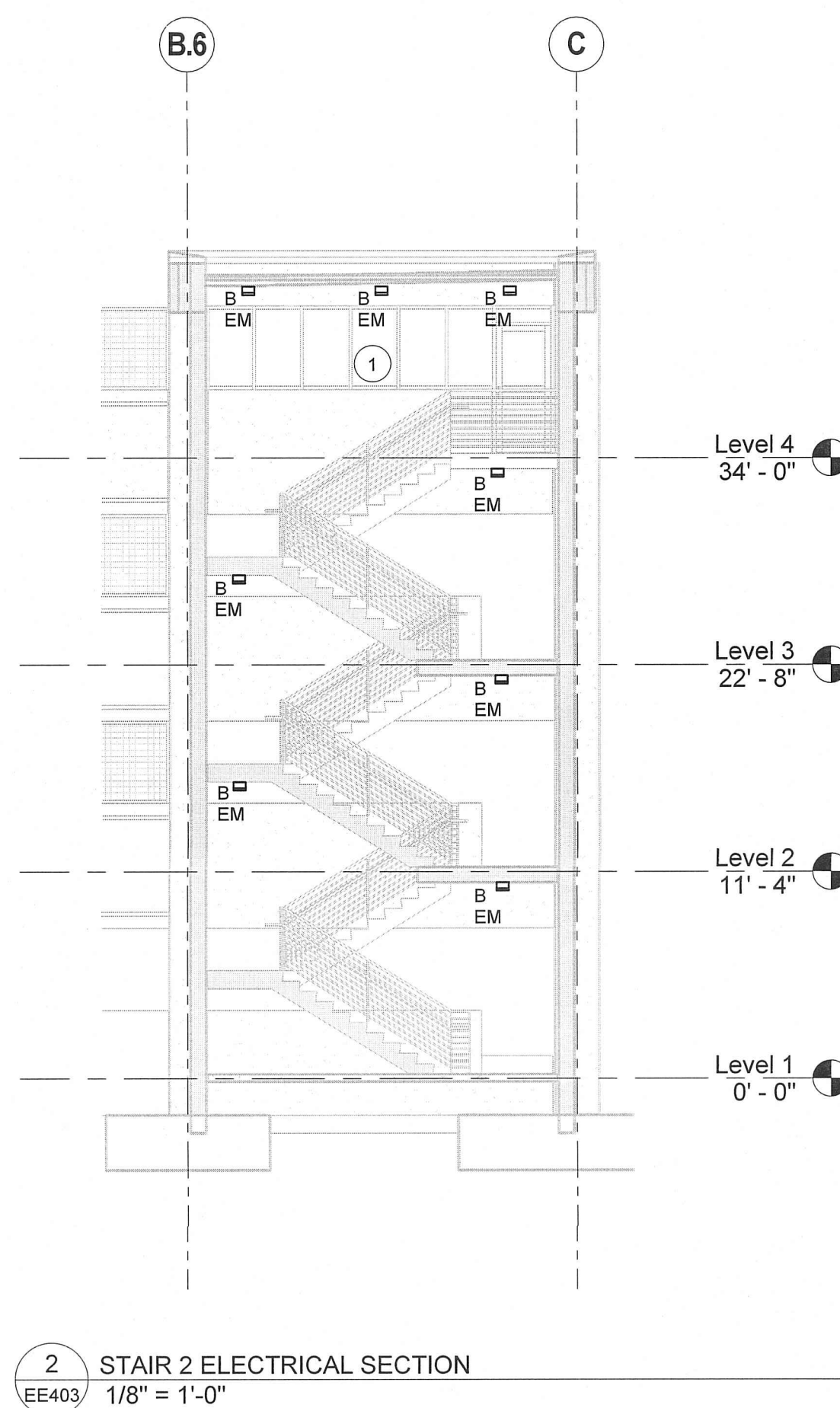
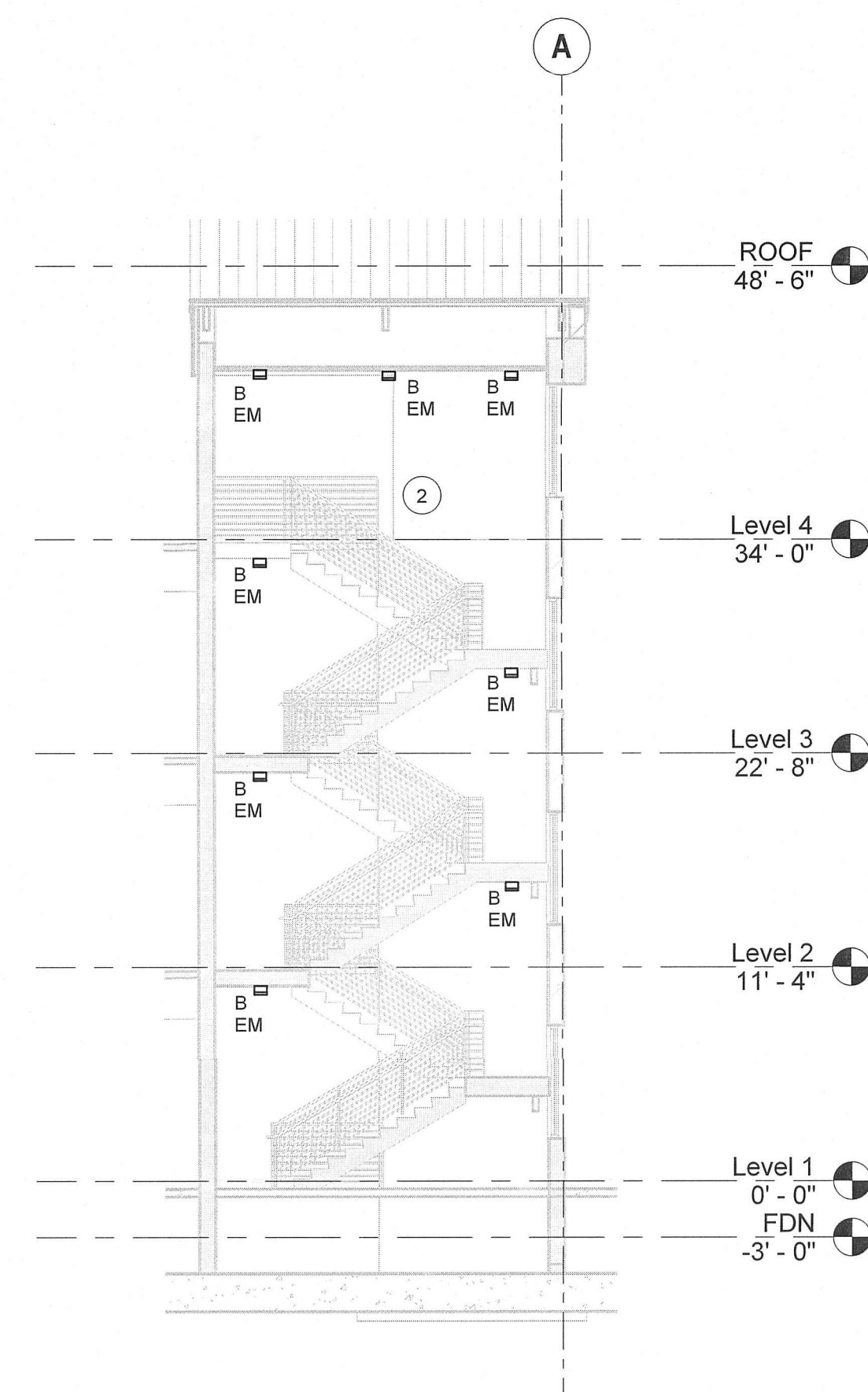
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CONSTRUCTION DOCUMENTS				
Drawing Title ELECTRICAL ENLARGEMENTS	Project Title CONSTRUCT PARKING GARAGE		A/E Project Number 15.1003	
	Location COLUMBIA, SC VAMC		Building Number BLDG 108	
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location COLUMBIA, SC VAMC		Drawing Number EE402	
	Date 4 DEC 2015	Checked By: JKM	Drawn By: SCB	VA Project Number 544-306
			 U.S. Department of Veterans Affairs	



GENERAL NOTES:

- A. ALL LIGHTING CONDUCTORS SHALL BE 2-1/2 AWG, 1-1/2 AWG EG, IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- B. ALL RECEPTACLE CONDUCTORS SHALL BE 2-1/2 AWG, 1-1/2 AWG EG, IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- C. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
- D. SEE SHEET EE601 FOR EQUIPMENT CONDUIT SCHEDULE.
- E. ALL EXTERIOR WALL MOUNTED LIGHTING SHALL BE MOUNTED DIRECTLY TO SPANDRELS. BOXES AND CONDUIT SHALL NOT BE ALLOWED ON OUTSIDE SURFACE OF GARAGE. CONDUCTORS ARE TO BE ROUTED DIRECTLY THROUGH SPANDREL TO JUNCTION BOX MOUNTED ON THE INSIDE SURFACE OF SPANDREL.

⑧ SHEET KEY NOTES:

- 1 ALL STAIR 2 LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED FROM 'INVH1'-5.
- 2 ALL STAIR 1 AND LEVEL 4 ELEVATOR LOBBY LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED FROM 'INVH1'-3.



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Drawing Title	ELECTRICAL ENLARGEMENTS AND SECTIONS
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Approved for Design Concept:
FACILITY MANAGEMENT
DIVISION MANAGER

CONSTRUCTION DOCUMENTS

Project Title	CONSTRUCT PARKING GARAGE
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Location	COLUMBIA, SC VAMC
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Date
4 DEC 2015

Checked By:
IKM

Drawn By:
SCB

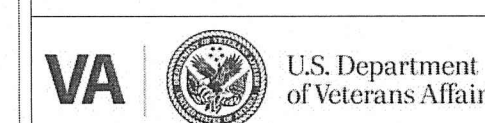
A/E Project Number	15.1003
Builder's Address	

Building Number
BLDG 108

Drawing Number
EE403

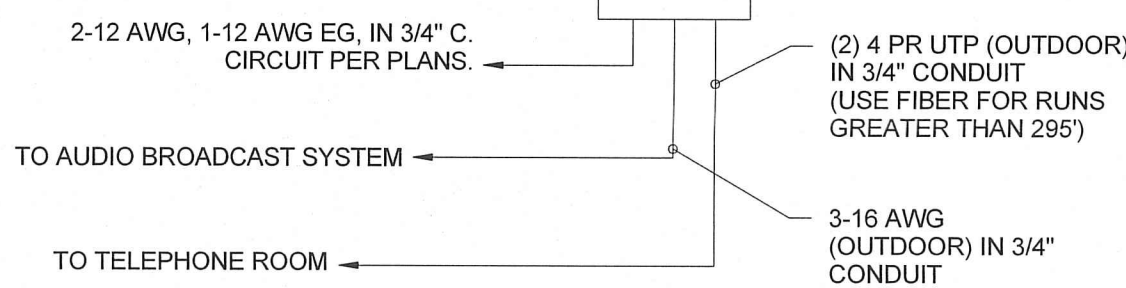
OFFICE OF
FACILITIES
MANAGEMENT

VA Project Number	544-306
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NOTES:

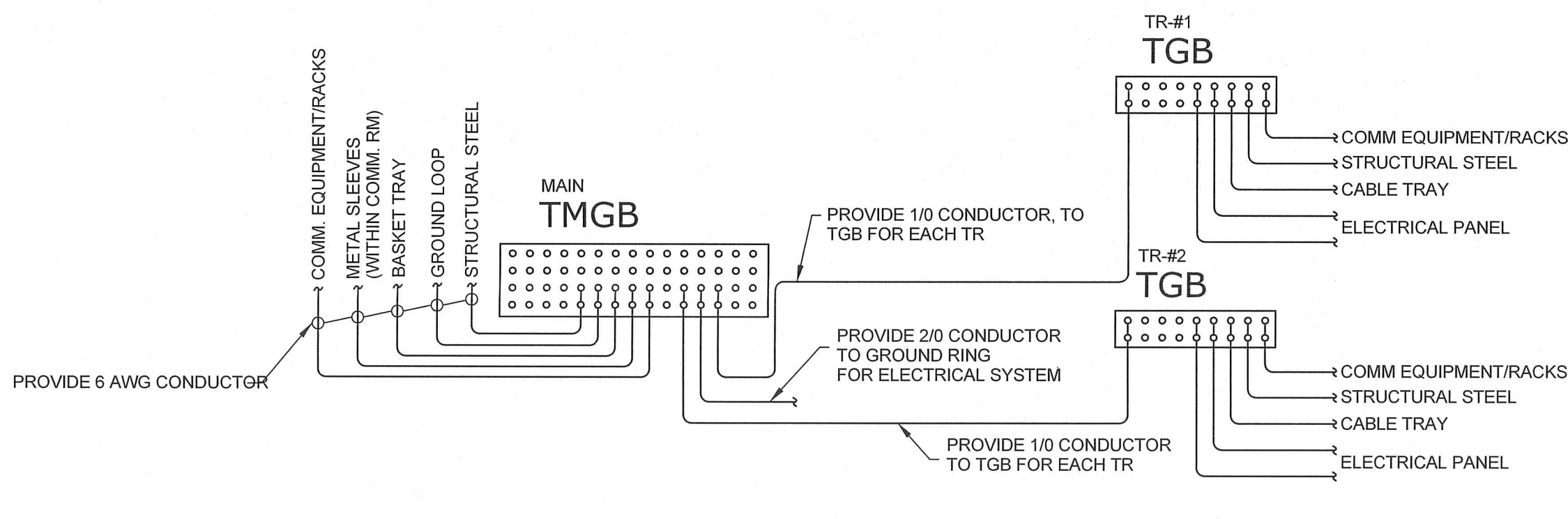
- ALL CABLING SHALL BE IN CONDUIT.
- MOUNT PHONE AT 42" TO BOTTOM.
- PROVIDE CABLING PER MANUFACTURER RECOMMENDATIONS.



10 WIDE AREA EMERGENCY BROADCAST SYSTEM
EE501/ N.T.S.

NOTES:

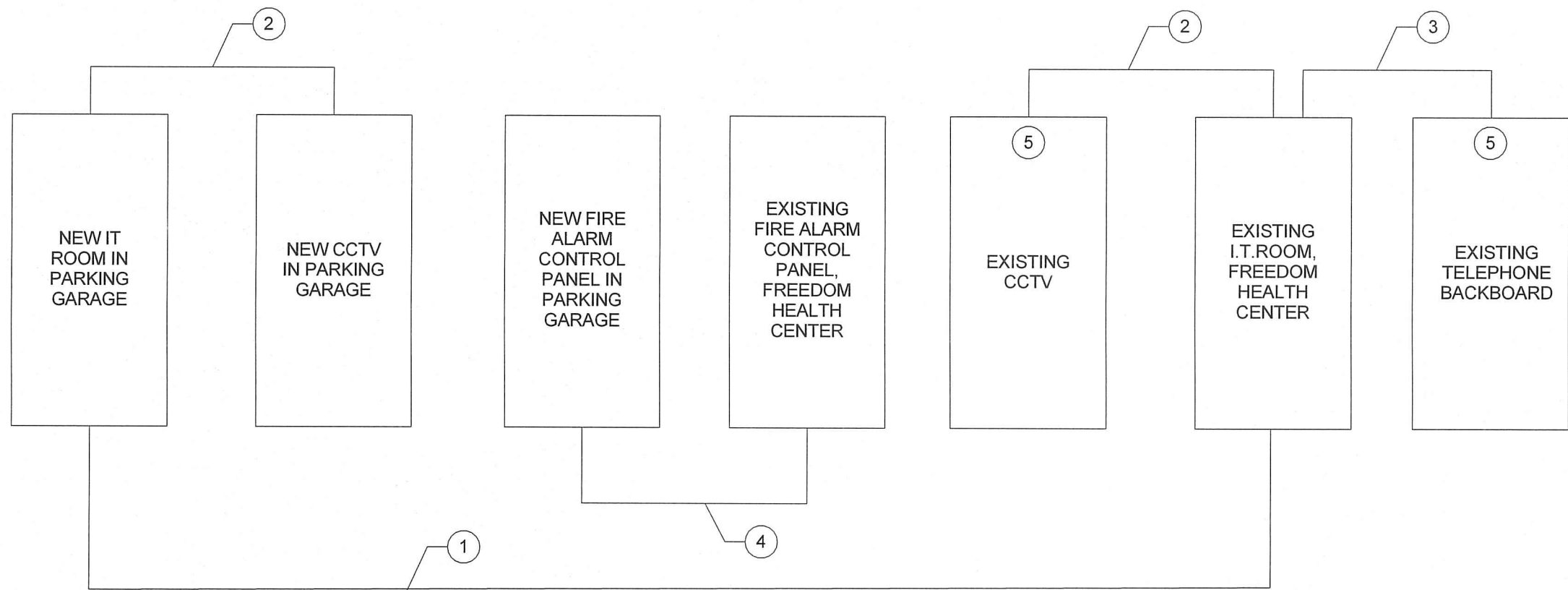
- ALL CONNECTIONS TO THE TMGB AND TGB SHALL BE MADE WITH COMPRESSION STYLE LONG BARREL CONNECTORS ON THE CONDUCTOR AND 2 LUG BOLTED CONNECTIONS TO THE GROUNDING BARS. CONNECTIONS TO STEEL SHALL BE WITH SILICON BRONZE HARDWARE. CONNECTION TO SLEEVES OR CONDUITS SHALL BY AN APPROVED GROUNDING BUSHING.
- LOCATE TMGB AND TGB ON THE LEFT OF THE TTB AND 16" AFF.
- ALL CONDUCTORS USED FOR GROUNDING SHALL BE MARKED AT CONNECTION POINT AND EVERY 10' THEREAFTER WITH A LABEL IDENTIFYING IT AS THE TELECOMMUNICATION GROUNDING BACKBONE (TGB) USE PAINDUIT #LTYK OR EQUAL.
- PROVIDE 4" H x 20" L x 1/4" W TMGB.
- PROVIDE 2" H x 24" L x 1/4" W TGB.
- CONTRACTOR SHALL CLEAN THE BUS BAR AND APPLY ANTIOXIDANT PRIOR TO FASTENING THE CONNECTORS TO THE BUS BAR.



9 TELECOM GROUNDING DETAIL
EE501/ N.T.S.

PARTIAL LAN NETWORK RISER NOTES:

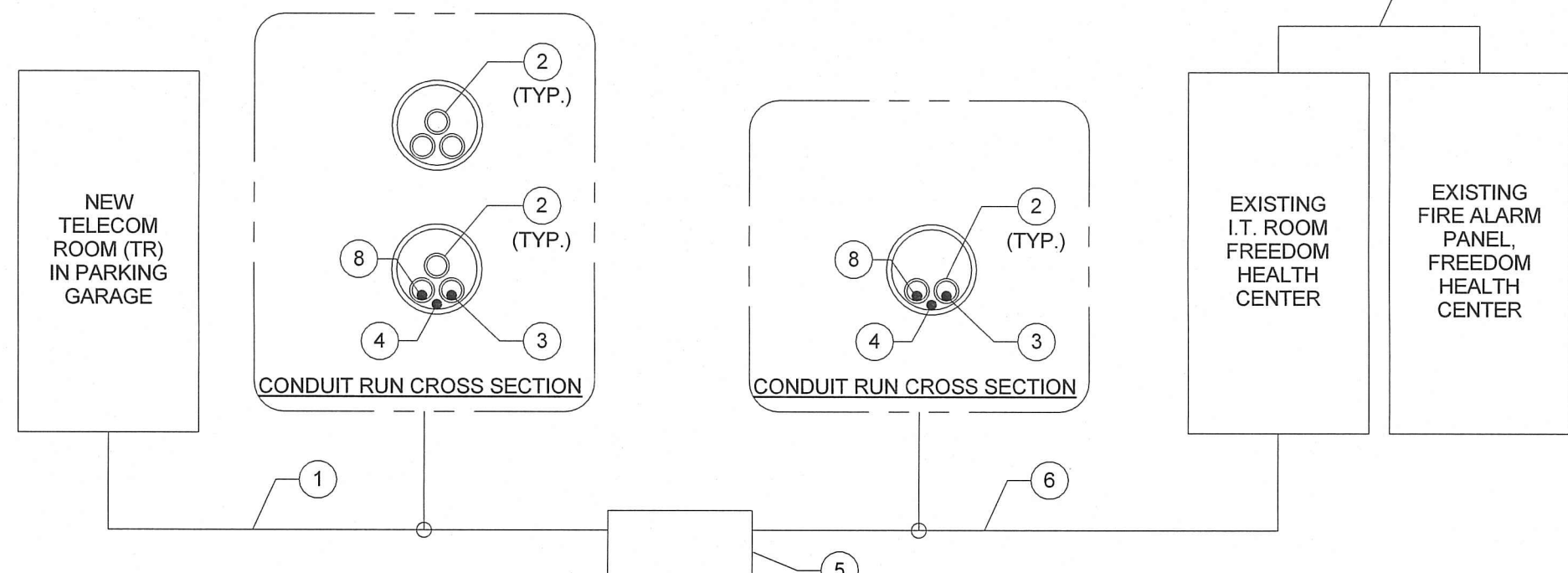
- PROVIDE 12 STRAND 62.5 MICRON MULTI-MODE ARMORED TIGHT BUFFERED FIBER (OM4) AND 25 PR OUTDOOR UTP CABLE (CAT5E) WITH S.E.P. AT EACH END. SEE SHEET EE102 FOR ROUTING. VERIFY HOSPITAL LOCATION WITH COR.
- PROVIDE 6 STRAND 62.5 MICRON MULTI-MODE FIBER (OM4). VERIFY WITH COR.
- PROVIDE 25 PR INDOOR UTP CABLE (CAT5E).
- PROVIDE 4 STRAND 62.5 MICRON MULTI-MODE ARMORED TIGHT BUFFER FIBER (OM4) FOR FIRE ALARM SYSTEM. SEE SHEET EE102 FOR ROUTING. VERIFY WITH COR.
- PROVIDE COPPER AND FIBER PATCH PANELS FOR EACH SYSTEM.



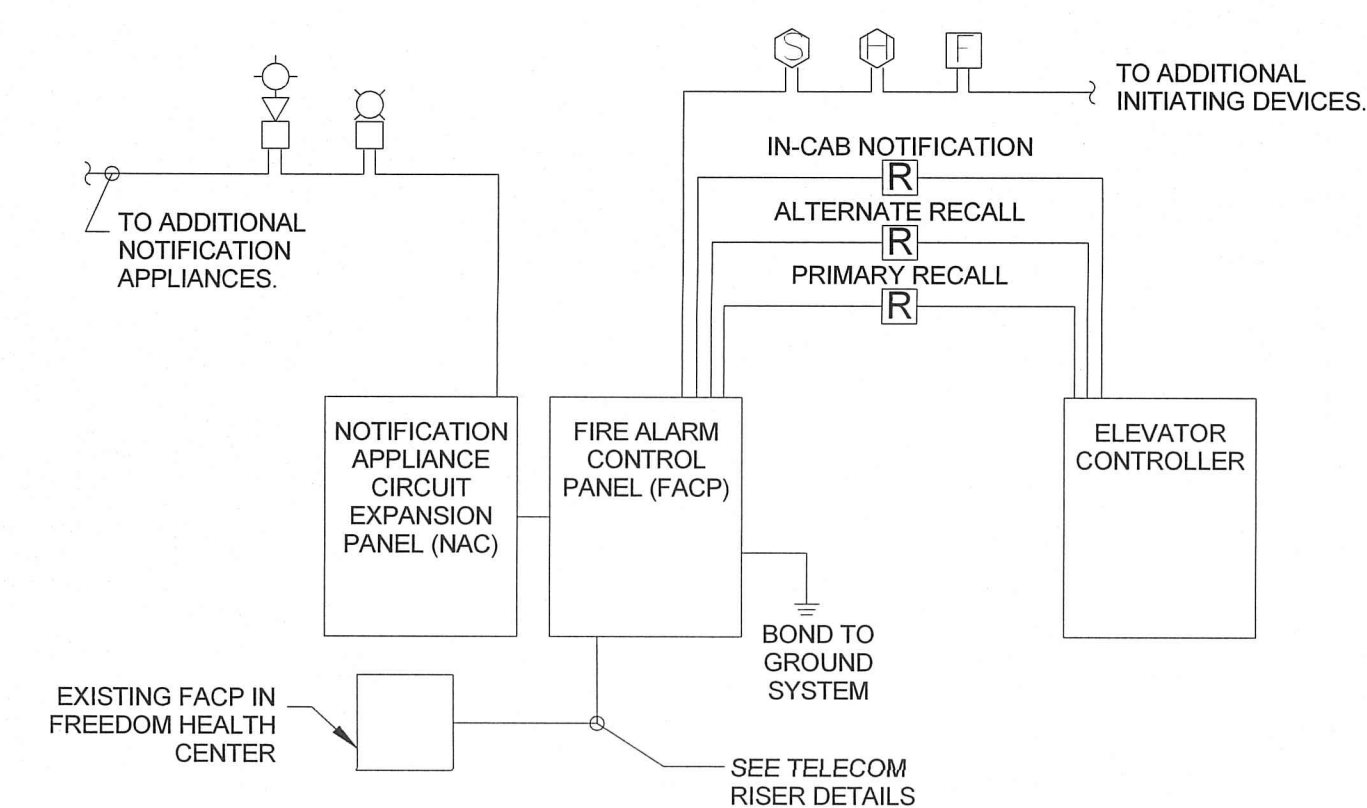
8 PARTIAL LAN NETWORK RISER DIAGRAM
EE501/ N.T.S.

PARTIAL TELECOM RISER NOTES:

- PROVIDE (2) 4" CONDUITS.
- PROVIDE 1" INNER DUCTS OR MAXCELL.
- PROVIDE (12) STRANDS OF OUTDOOR ARMORED MULTI-MODE 62.5 MICRON FIBER (OM4) FOR IT, DATA, AND SECURITY. SEE SHEET EE102 FOR ROUTING. VERIFY WITH COR.
- PROVIDE (25) PAIR OUTDOOR CAT5 MULTI-MODE TELEPHONE CABLE WITH SERVICE ENTRANCE PROTECTION AT BOTH ENDS. SEE SHEET EE102 FOR ROUTING. VERIFY WITH COR.
- PROVIDE 30" x 48" x 48" D PULL BOX WITH 'SIGNAL' LABEL ON THE LID. TIER 15 LOADING.
- PROVIDE (1) 3" CONDUIT BY DIRECTIONAL BORE PER SITE PLAN, ROUTE VERIFIED BY GROUND PENETRATING RADAR.
- INSTALL TRACER WIRE IN EACH UNDERGROUND CONDUIT.
- PROVIDE (4) STRANDS OF OUTDOOR ARMORED 62.5 MICRON MULTI-MODE FIBER (OM4) FOR FIRE ALARM SYSTEM.
- PROVIDE (4) STRANDS OF 62.5 MICRON MULTI-MODE ARMORED TIGHT BUFFER FIBER (OM4) FOR FIRE ALARM.



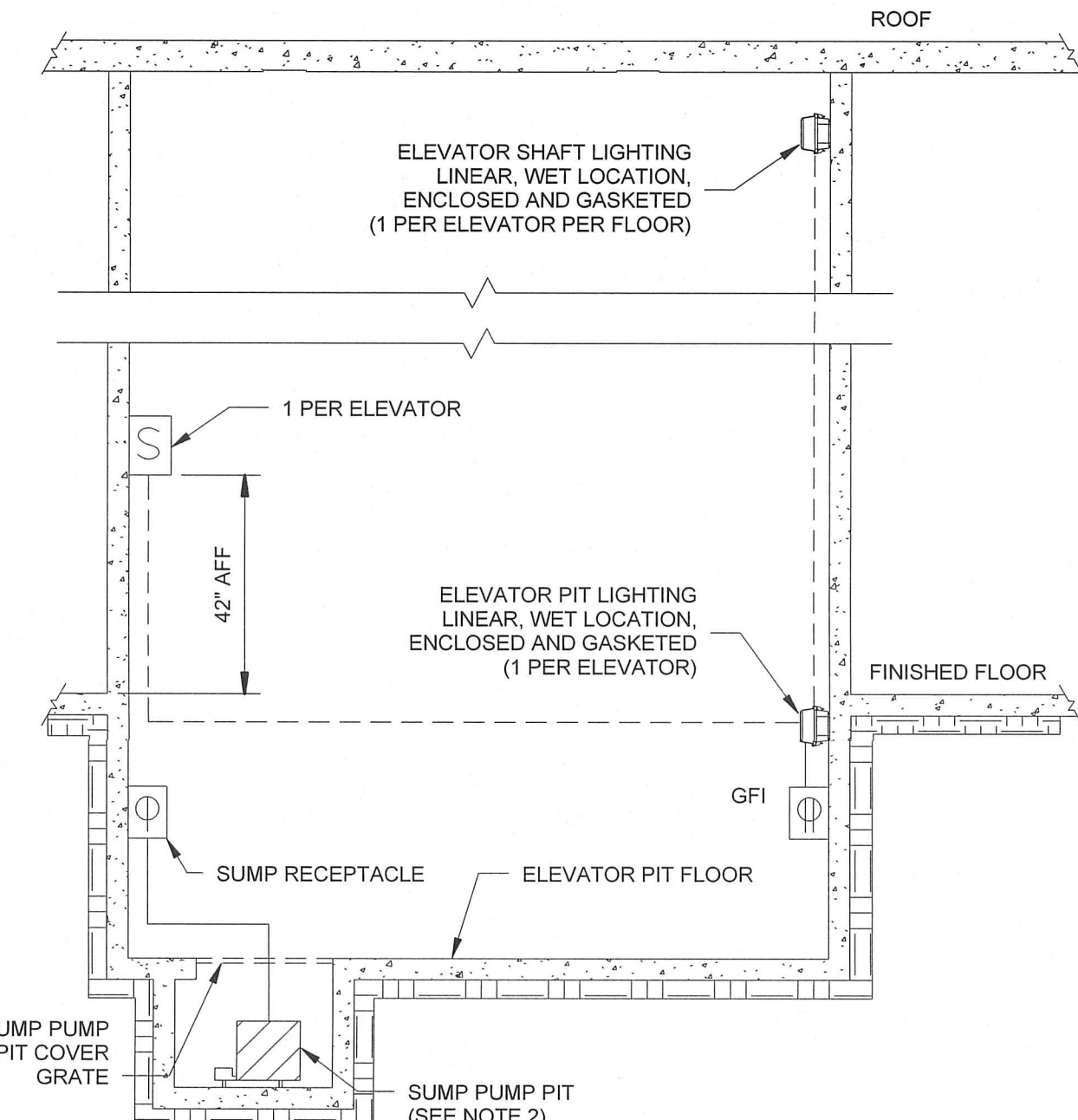
7 PARTIAL TELECOM RISER DIAGRAM
EE501/ N.T.S.



FIRE ALARM NOTES:

- FIRE ALARM SYSTEM SHALL BE INTERCONNECTED WITH ACCESS CONTROL SYSTEM TO ALLOW EGRESS DURING ALARM CONDITIONS. COORDINATE BETWEEN ACCESS CONTROL SYSTEM AND FIRE ALARM SYSTEM MANUFACTURERS.
- ALL FIRE ALARM WIRING SHALL BE IN EMT, FACTORY-PAINTED RED.
- ALL WIRING SHALL BE AS RECOMMENDED BY MANUFACTURER.
- PROVIDE POWER SUPPLY AND/OR NAC PANEL AS REQUIRED FOR DEVICES.
- PROVIDE POWER AMPLIFIERS FOR ALL SPEAKERS.
- SYSTEM SHALL MATCH FACILITY EXISTING NOTIFIER SYSTEM.
- FIRE ALARM SHALL INITIATE ELEVATOR RECALL UPON ALARM CONDITION IN ANY ELEVATOR LOBBY OR MACHINE ROOM AS DESCRIBED IN NFPA 72 AND ASME A17.1.
- SPEAKERS SHALL BE WIRED SEPARATELY FROM STROBES.

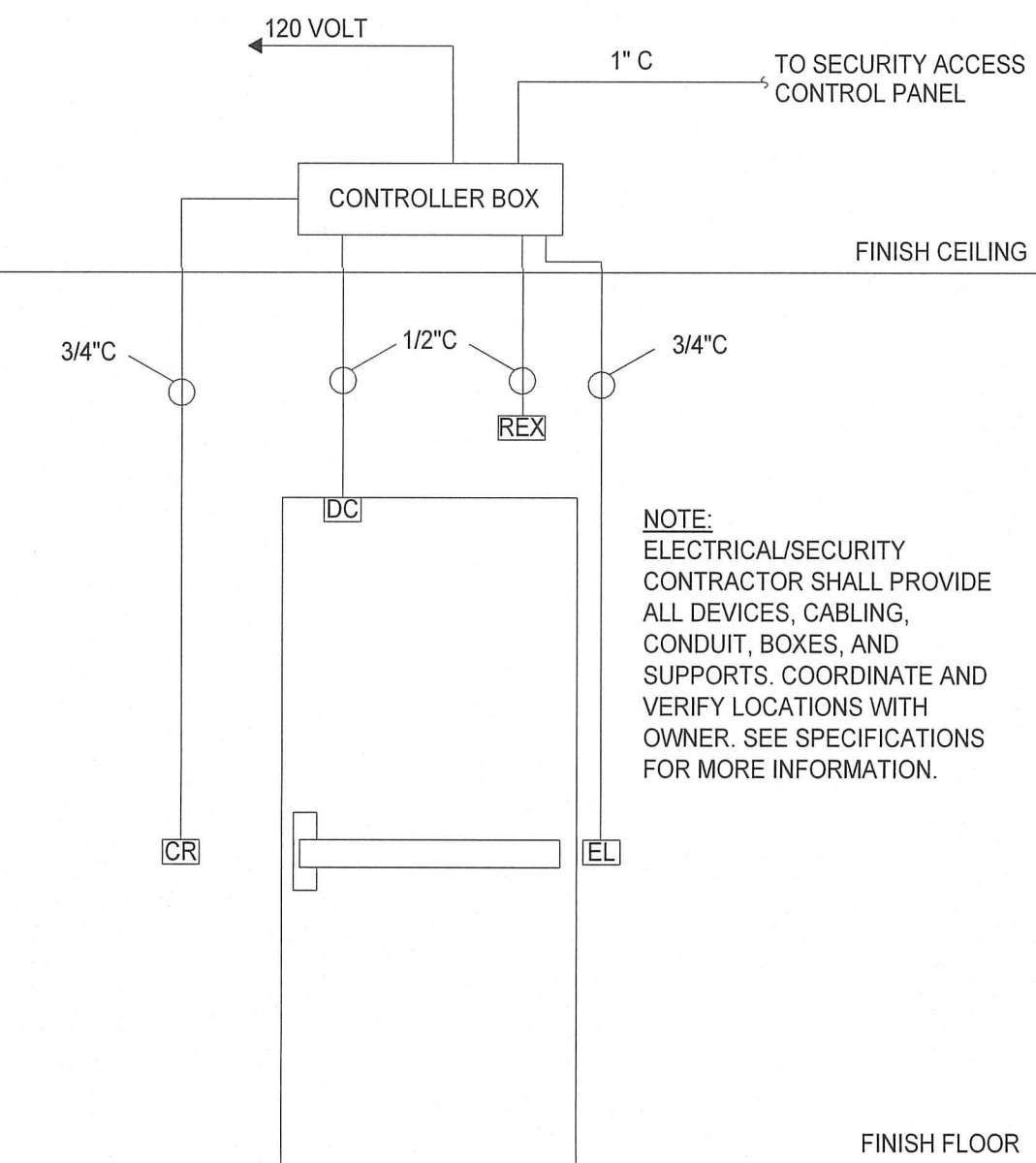
4 FIRE ALARM SYSTEM RISER DIAGRAM
EE501/ N.T.S.



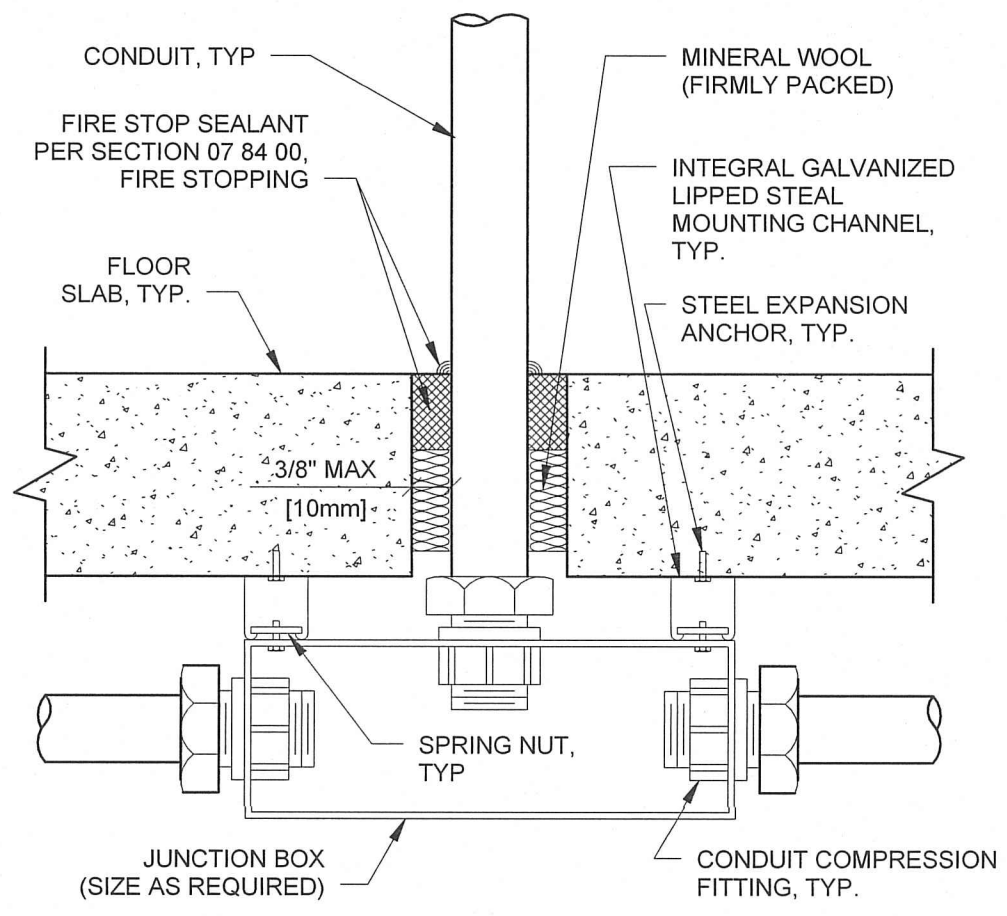
NOTES:

- IN CASE OF A FIRE ALARM THE ELEVATORS PRIMARY RECALL SHALL BE THE GROUND LEVEL AND THE SECONDARY RECALL SHALL BE THE SECOND LEVEL.
- SEE ARCHITECTURAL PLANS FOR EXACT FLOOR NAMES AND ADDITIONAL HOISTWAY AND PIT INFORMATION.

3 ELEVATOR PIT DETAIL
EE501/ N.T.S.

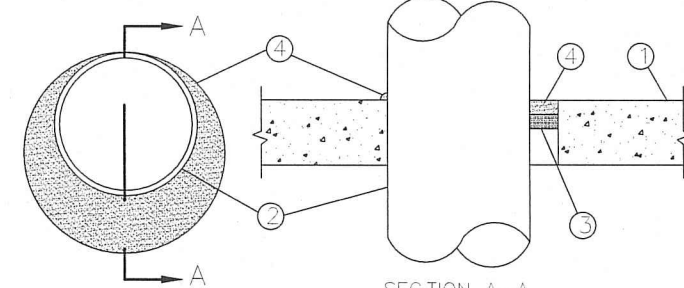


6 DOOR CARD READER ACCESS DETAIL
EE501/ N.T.S.



5 FLOOR SLAB PENETRATION DETAIL
EE501/ N.T.S.

System No. C-AJ-1001
June 15, 2005
F Rating - 3 Hr
T Rating - 0 Hr
W Rating - Class I (See Item 4)



1. Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of circular through opening is 32-1/2 in. (826 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve (Optional, not shown) - Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. (51mm) from top surface of floor or from both surfaces of wall.

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm)(point contact) to max 1-5/8 in. (35 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- A1. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
- B. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
- C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

3. Packing Material - Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed ceramic (alumina silica) fiber blanket, mineral wool batt or glass fiber insulation material used as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of solid concrete or concrete block wall as required to accommodate the required thickness of caulk fill material (Item 4). As an alternate when max pipe size is 10 in. (254 mm) diam and when max annular space is 1 in. (25 mm), a min 1 in. (25 mm) thickness of tightly-packed ceramic fiber blanket or mineral wool batt packing material may be recessed min 1/2 in. (13 mm) from bottom surface of floor or from either side of solid concrete wall.

4. Fill/Void or Cavity Materials* - Caulk or Sealant - Applied to fill the annular space to the min thickness shown in the following table:

Max Pipe Diam in. (mm)	Max Annular Space in. (mm)	Packing Mat Type (a)	Min Caulk Thick in. (mm)
10 (254)	1 (25)	BR, CF, GF or MW	1/2 (13) (b)
10 (254)	1 (25)	CF or MW	1/2 (13) (c)
30 (762)	2-1/2 (64)	BR, CF, GF or MW	1 (25) (b)

(a) BR = Polyethylene backer rod.
CF = Ceramic fiber blanket.
GF = Glass fiber insulation.
MW = Mineral-wool batt.
(b) Caulk installed flush with top surface of floor or both surfaces of wall.
(c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall.

3M COMPANY - CP 25WB + caulk or FB-3000 WT sealant.
(Note: W Rating applies only when FB-3000 WT sealant is used.)

*Bearing the UL Classification Marking
CONDUIT PENETRATION THROUGH CONCRETE BLOCK ASSEMBLY (UL #C-AJ-1001)
EE501/ N.T.S.



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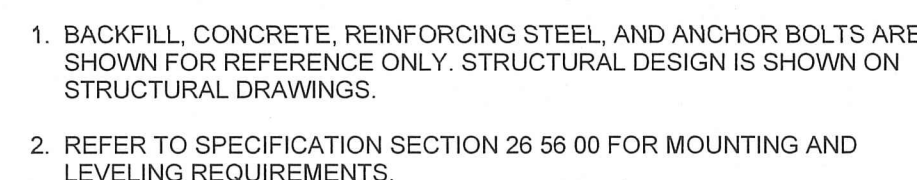
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Drawing Title
ELECTRICAL DETAILS
Approved for Design Concept:
FACILITY MANAGEMENT
DIVISION MANAGER

CONSTRUCTION DOCUMENTS

Project Title CONSTRUCT PARKING GARAGE	A/E Project Number 15.1003	OFFICE OF FACILITIES MANAGEMENT
Location COLUMBIA, SC VAMC	Building Number BLDG 108	VA Project Number 544-306
Date 4 DEC 2015	Checked By: JKM	Drawn By: SCB
Drawing Number EE501		VA U.S. Department of Veterans Affairs



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DIVISION MANAGER

Date
4 DEC 2015

EE502

VA  U.S. Department
of Veterans Affairs

THE ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE POWER REQUIREMENTS OF THE EQUIPMENT PROVIDED WITH THE MANUFACTURER/ CONTRACTOR AND SHALL PROVIDE ELECTRICAL SERVICES, FEEDERS, ETC. TO MATCH THE FURNISHED EQUIPMENT. CONTRACTOR SHALL PROVIDE FEEDERS/ CONDUCTORS SIZED TO ACCOUNT FOR VOLTAGE DROP IN ACCORDANCE WITH NEC 210.19.

* CONDUCTORS INCREASED DUE TO VOLTAGE DROP

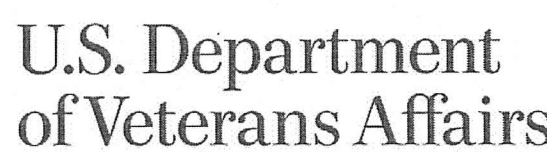
PANEL 'INVL1'

PANEL 'H1'

PANEL 'INVH1'

PANEL 'L1'

ALL CONDUCTORS ARE COPPER (CU) UNLESS NOTED OTHERWISE.
WIRE SIZE TO SPD SHALL BE 10 AWG MINIMUM.



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